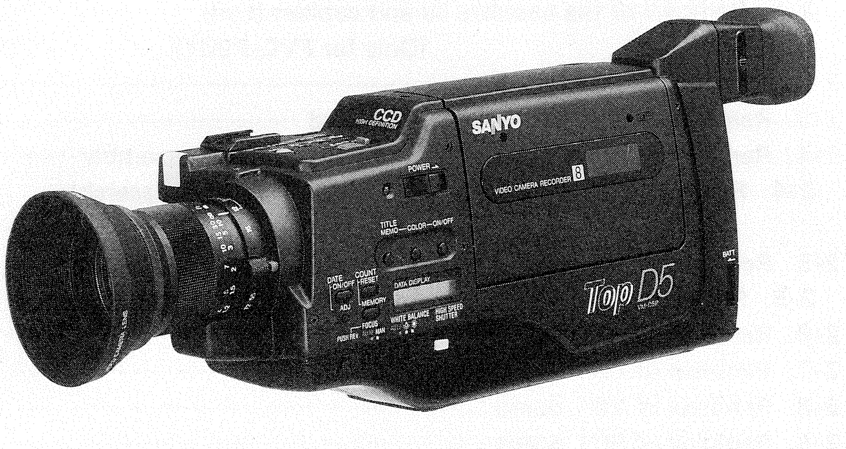
B022

V679

SANYO

Service Manual 8 mm Camcorder VM-D5P



Specifications

Video recording system	Rotating 2-head helical-scan FM, color under sytstem
Audio recording system	Rotating head FM system
Video signals	PAL color, CCIR standard system
Cassette type	8 mm video tape cassette
Tape speed	20.051 mm/sec.
Recording/ playback time	180 minutes (P5-90 cassette)
Fast forward/ rewind time	Approx. 5 minutes (P5-90 cassette)
Pickup element	CCD solid-state type
Viewfinder	Electronic (0.7 inch type, black and white)
Lens	Electro-powered 6X zoom lens f =12 ~ 72 mm F 1.6 Close-up junction (18 mm~ 1.2 m) Automatic focus Filter diameter 49 mm
White balance adjustment	Automatic or set
Minimum subject illumination	5 lux
Subject illumination range	5 lux ~ 100.000 lux
Recommended subject illumination	300 lux or more
Power supply voltage	Battery holder input 6V/7.5V
Power consumption	6.5W during camera recording (including viewfinder)
Operation position	Vertical
Operation temperature range	0℃ ~ +40℃ (32°F ~104° F)
Storage temperature range	−20℃ ~ +60℃ (−4°F ~ +140°F)
External dimensions	110×134×351 mm (W×H×D)
Weight	Approx. 2.4 lb. (not including battery pack and cassette)
Microphone	Etectret condenser type (omnidirectional)
AV terminal	Video input 1Vp-p, 75Ω unbalanced, negative sync Video output 1Vp-p, 75Ω unbalanced, negative sync Audio input −6dBs, 47kΩ or higher Audio output −6dBs, 2.2kΩ or less
Microphone jack	Mini jack, −64dBs For low-impedance microphone
Earphone jack	Mini jack, for 8Ω earphone

- Specifications and external appearance are subject to change whitout notice.

PRODUCTION CODE No.
126 005 02 (GERMANY)
126 005 09 (M-EAST)
126 005 12 (UK)
126 005 13 (SPAIN)
126 005 14 (SWITZERLAND)
126 005 15 (AUSTRALIA)

ER5P/G, ME, E, SP, SW, A

REFERENCE NO. WM-550016

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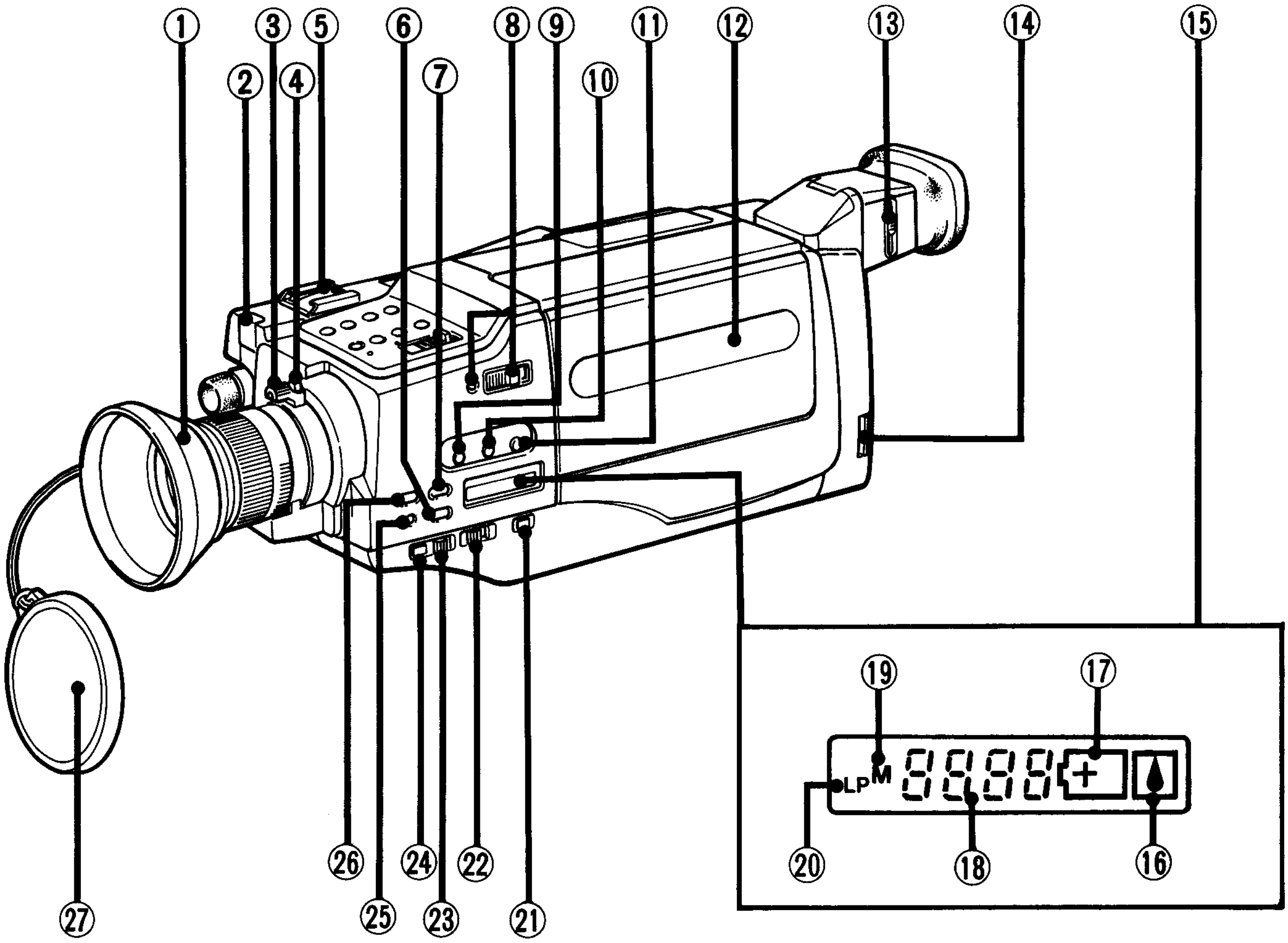
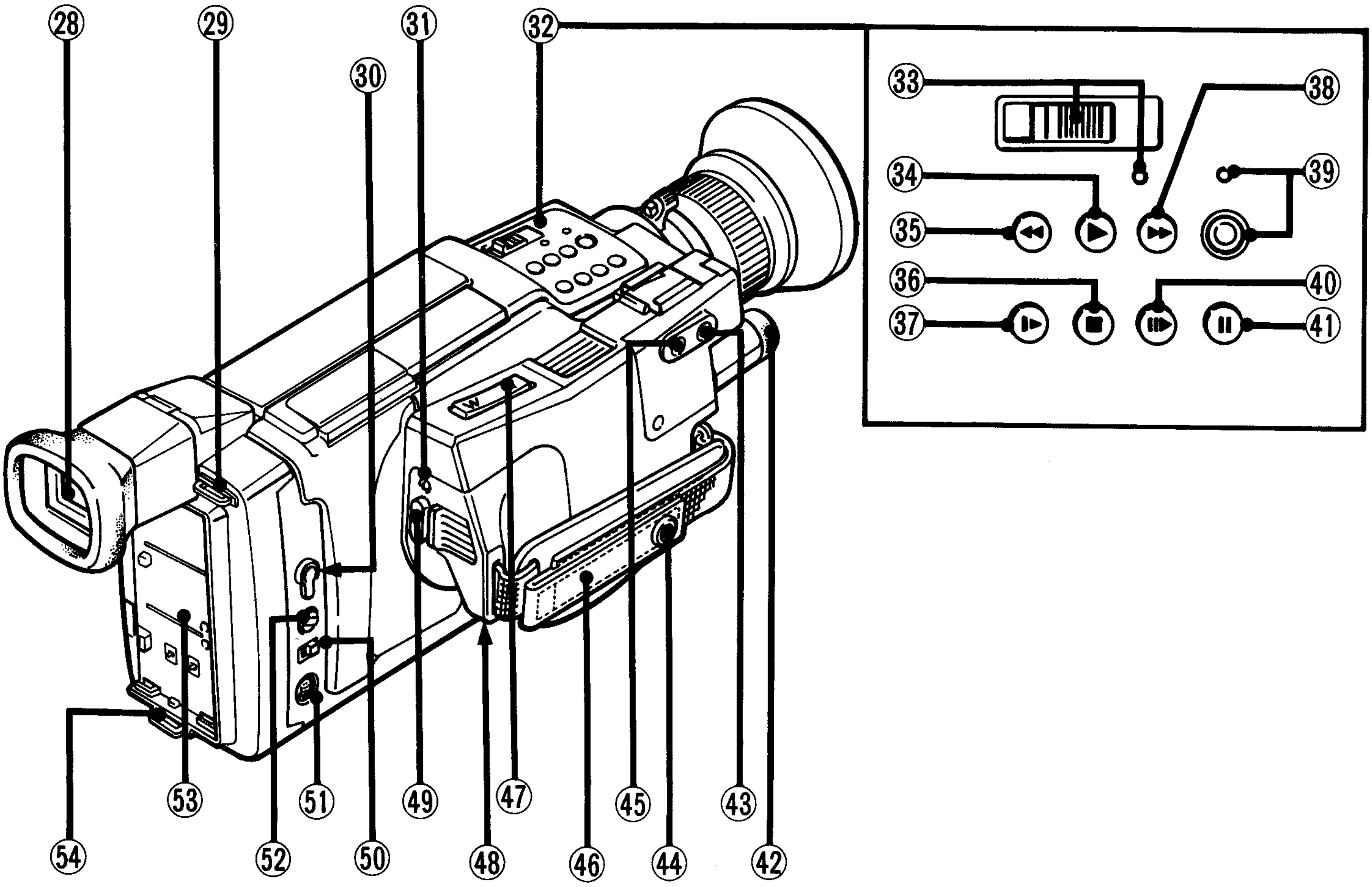
1. PARTS NAME



No.	Name
①	Focus ring
②	White sensor
③	Zoom lever
④	MACRO SET button
⑤	Accessory shoe
⑥	COUNT MEMORY button
⑦	COUNT RESET button
⑧	Power switch and lamp
⑨	TITLE MEMO button
⑩	TITLE COLOR button
⑪	TITLE ON/OFF button
⑫	Cassette holder
⑬	Eyesight compensation lever

No.	Name
⑭	BATTERY EJECT lever
⑮	Digital display
⑯	DEW indicator
⑰	Battery indicator
⑱	Tape counter indicator
⑲	MEMORY indicator
⑳	LP mode indicator
㉑	HIGH SPEED SHUTTER button
㉒	WHITE BALANCE switch
㉓	FOCUS switch
㉔	FOCUS REV button
㉕	DATE ADJ button
㉖	DATE ON/OFF button
㉗	Lens cap

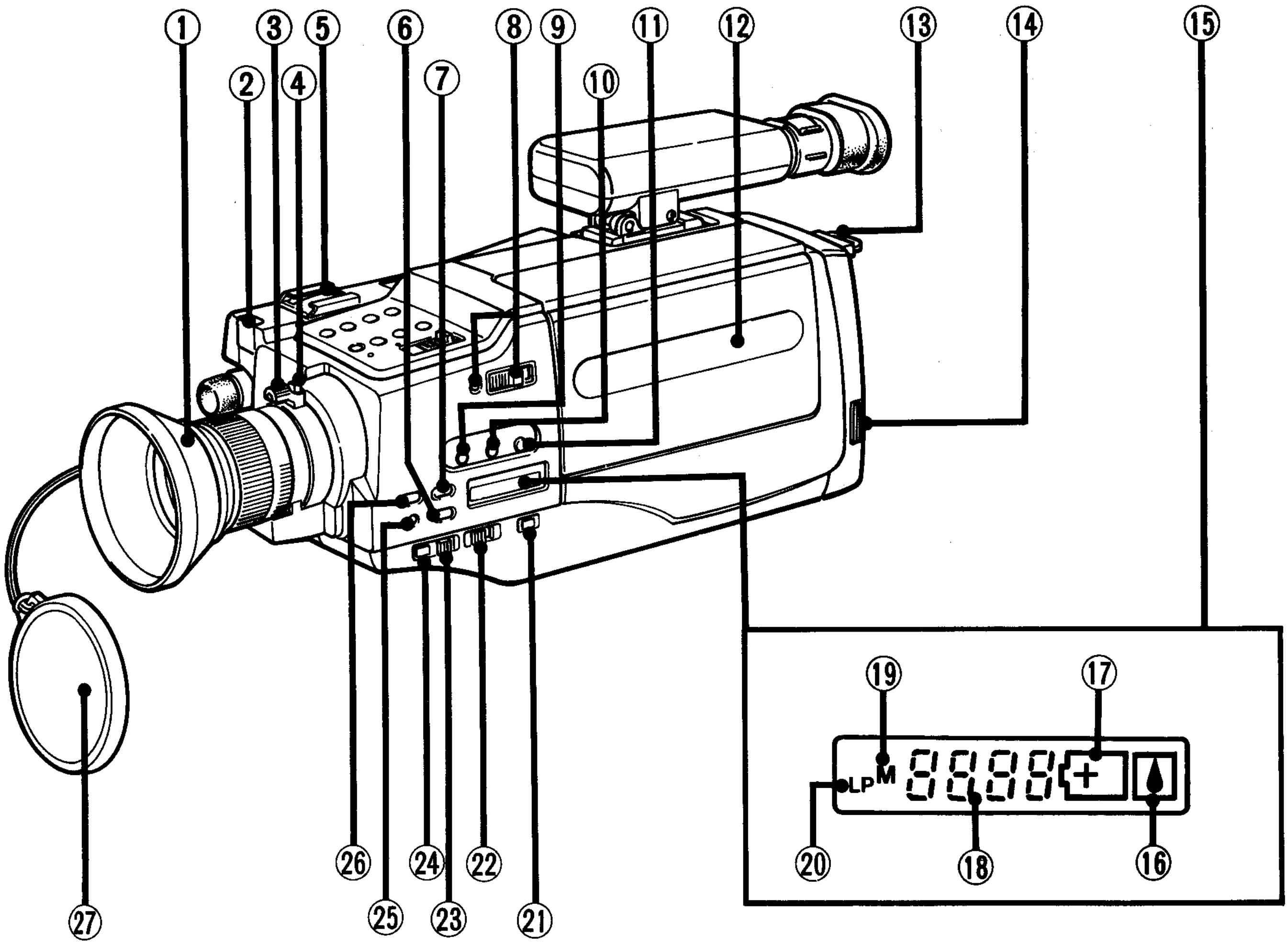


No.	Name
㉘	Viewfinder
㉙	Shoulder belt hook
㉚	Still vertical jitter adjustment hole
㉛	REC/PAUSE lamp
㉜	VCR Operation panel
㉝	EJECT switch and lamp
㉞	PLAY button
㉟	REW button
㊱	STOP button
㊲	SLOW button
㊳	FF button
㊴	REC button and lamp
㊵	F. ADV button

No.	Name
㊶	PAUSE/STILL button
㊷	Microphone
㊸	EXT. MIC jack
㊹	Lens cap snap
㊺	EARPHONE jack
㊻	Grip belt
㊼	Power zoom button
㊽	Tripod screw mount
㊾	REC START/STOP button
㊿	REC MODE/EDIT switch
(51)	AV terminal
(52)	SLOW TRACKING knob
(53)	Battery holder
(54)	Shoulder belt hook

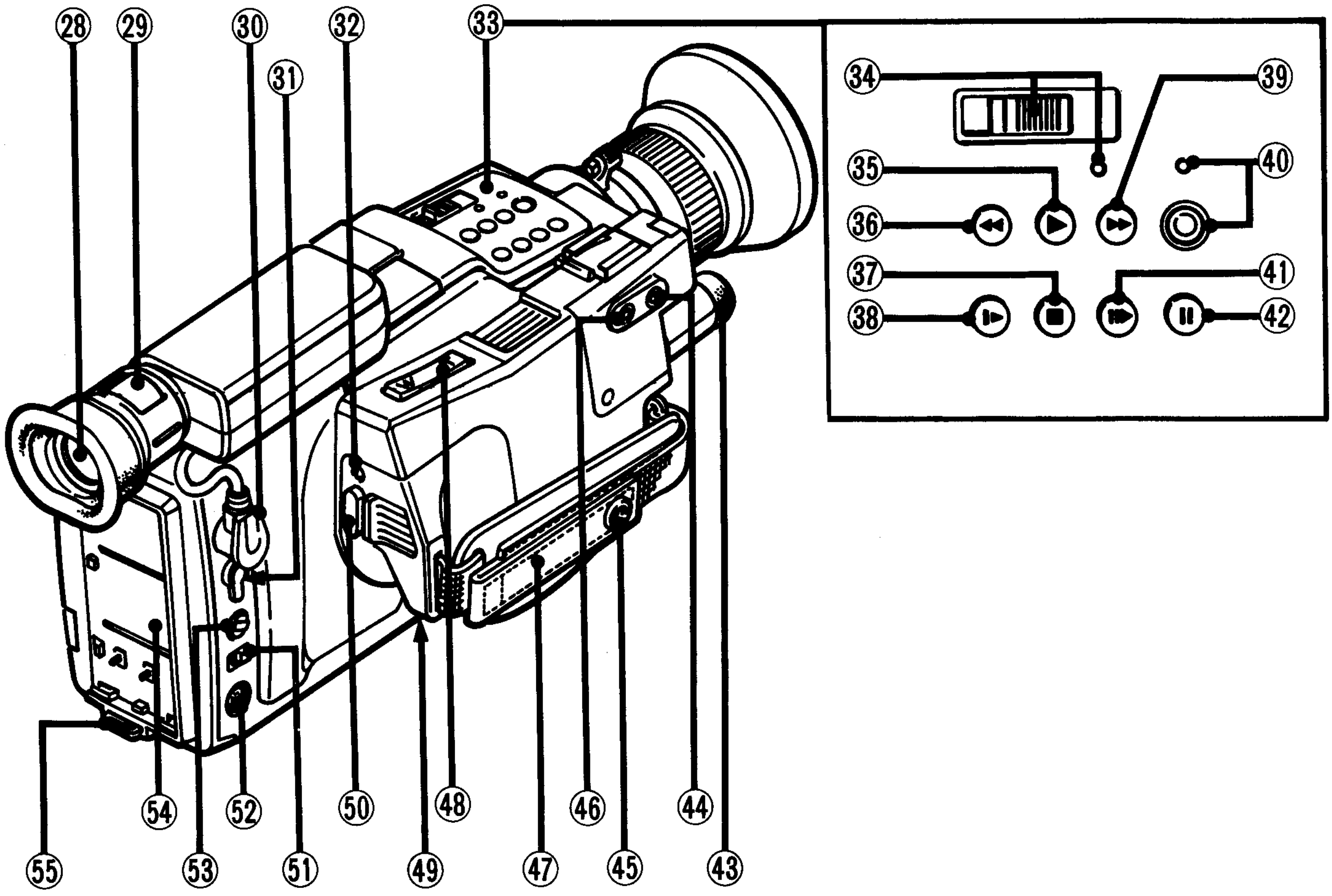
Note:
- The lens cap ㉗ can be attached to the lens cap snap ㊹ when recording.

1. PARTS NAME (Only for FVC-P901)



No.	Name
①	Focus ring
②	White sensor
③	Zoom lever
④	MACRO SET button
⑤	Accessory shoe
⑥	COUNT MEMORY button
⑦	COUNT RESET button
⑧	Power switch and lamp
⑨	TITLE MEMO button
⑩	TITLE COLOR button
⑪	TITLE ON/OFF button
⑫	Cassette holder
⑬	Shoulder belt hook

No.	Name
⑭	BATTERY EJECT lever
⑮	DATA DISPLAY
⑯	DEW indicator
⑰	Battery indicator
⑱	Tape counter indicator
⑲	MEMORY indicator
⑳	LP mode indicator
㉑	HIGH SPEED SHUTTER button
㉒	WHITE BALANCE switch
㉓	FOCUS switch
㉔	FOCUS REV button
㉕	DATE ADJ button
㉖	DATE ON/OFF button
㉗	Lens cap



No.	Name
㉘	Viewfinder
㉙	Eyesight compensation lever
㉚	Viewfinder plug
㉛	Still vertical jitter adjustment access
㉜	REC/PAUSE lamp
㉝	VCR Control panel
㉞	F. ADV button
㉟	PAUSE/STILL button
㊱	FF button
㊲	REC button and lamp
㊳	EJECT switch and lamp
㊴	STOP button
㊵	SLOW button
㊶	PLAY button

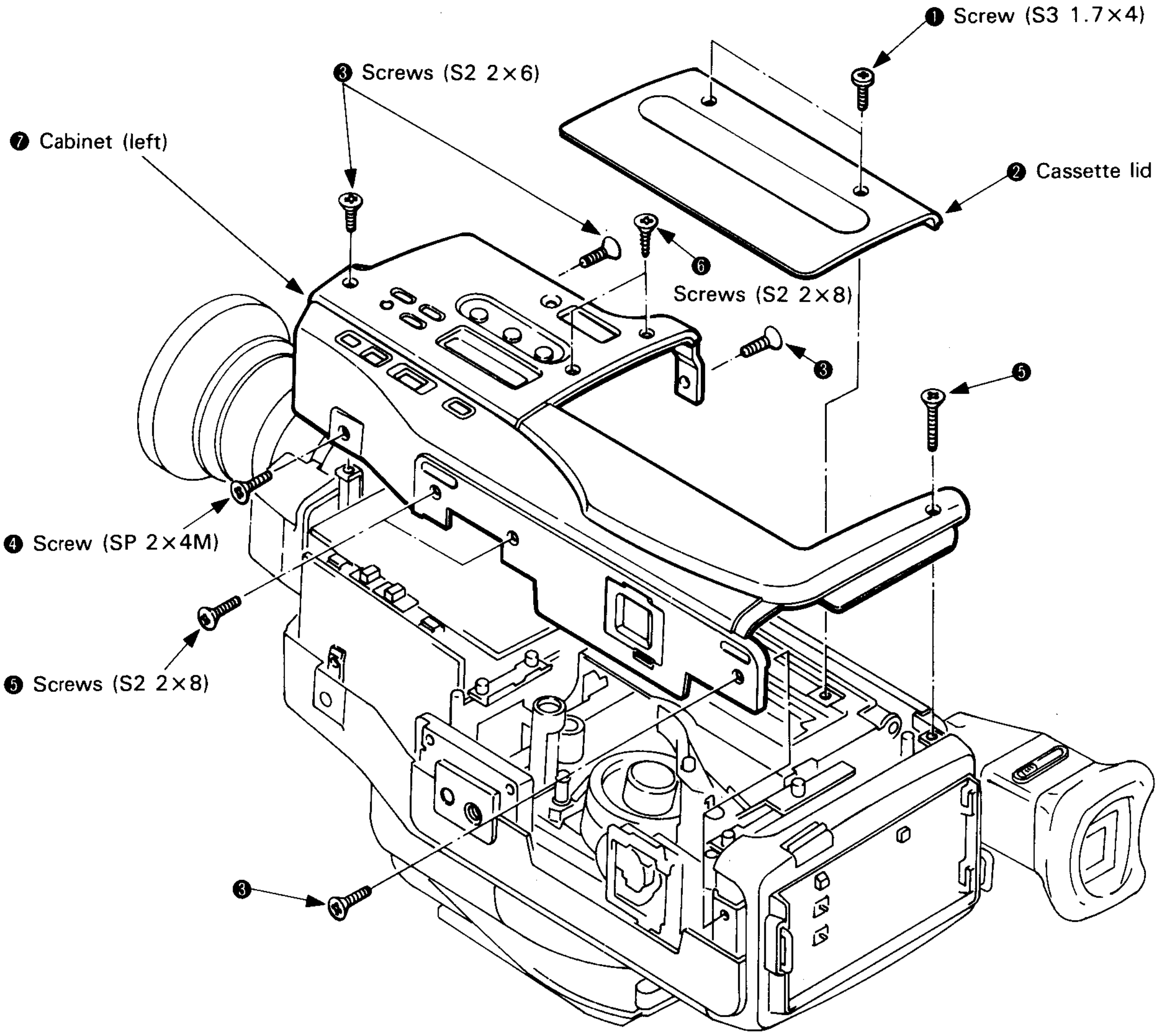
No.	Name
㊷	REW button
㊸	Microphone
㊹	EXT. MIC jack
㊺	Lens cap snap
㊻	EARPHONE jack
㊼	Grip belt
㊽	Power zoom button
㊾	Tripod screw mount
㊿	REC START/STOP button
(51)	REC MODE/EDIT switch
(52)	AV terminal
(53)	SLOW TRACKING knob
(54)	Battery holder
(55)	Shoulder belt hook

Note:
- The lens cap ㉗ can be conveniently attached to the lens cap snap ㊺ when recording.

2. DISASSEMBLY

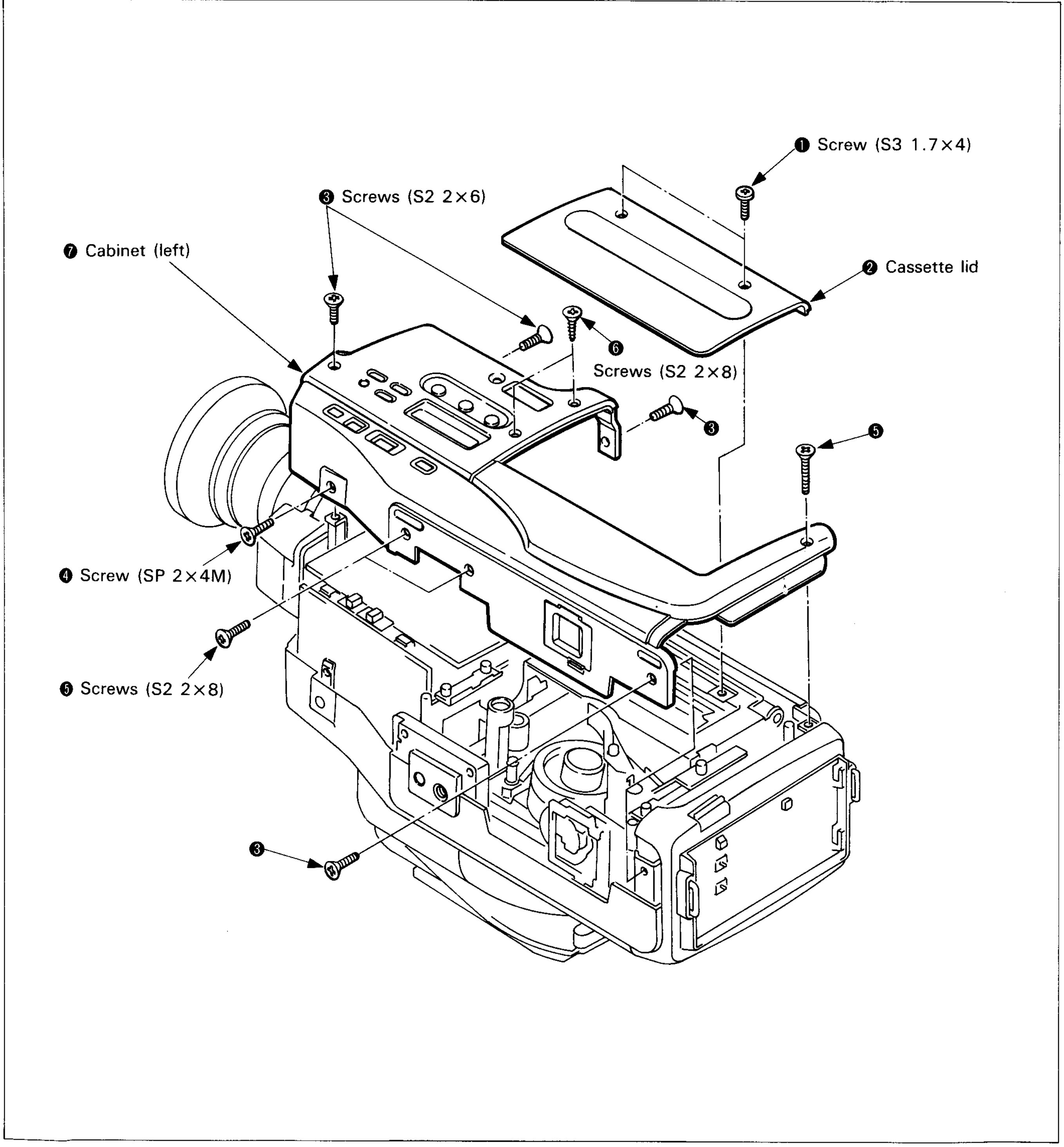
2-1. Removal of the cassette lid and cabinet (Left)

1) Remove the two screws ❶, and remove the cassette lid ❷.
2) Remove the four screws ❸, screws ❹, three screws ❺, and last two screws ❻.
3) Remove the cabinet (left) ❼.


❶ Screw (S3 1.7×4)
❸ Screws (S2 2×6)
❼ Cabinet (left)
❷ Cassette lid
❻
Screws (S2 2×8)
❸
❺
❹ Screw (SP 2×4M)
❺ Screws (S2 2×8)
❸

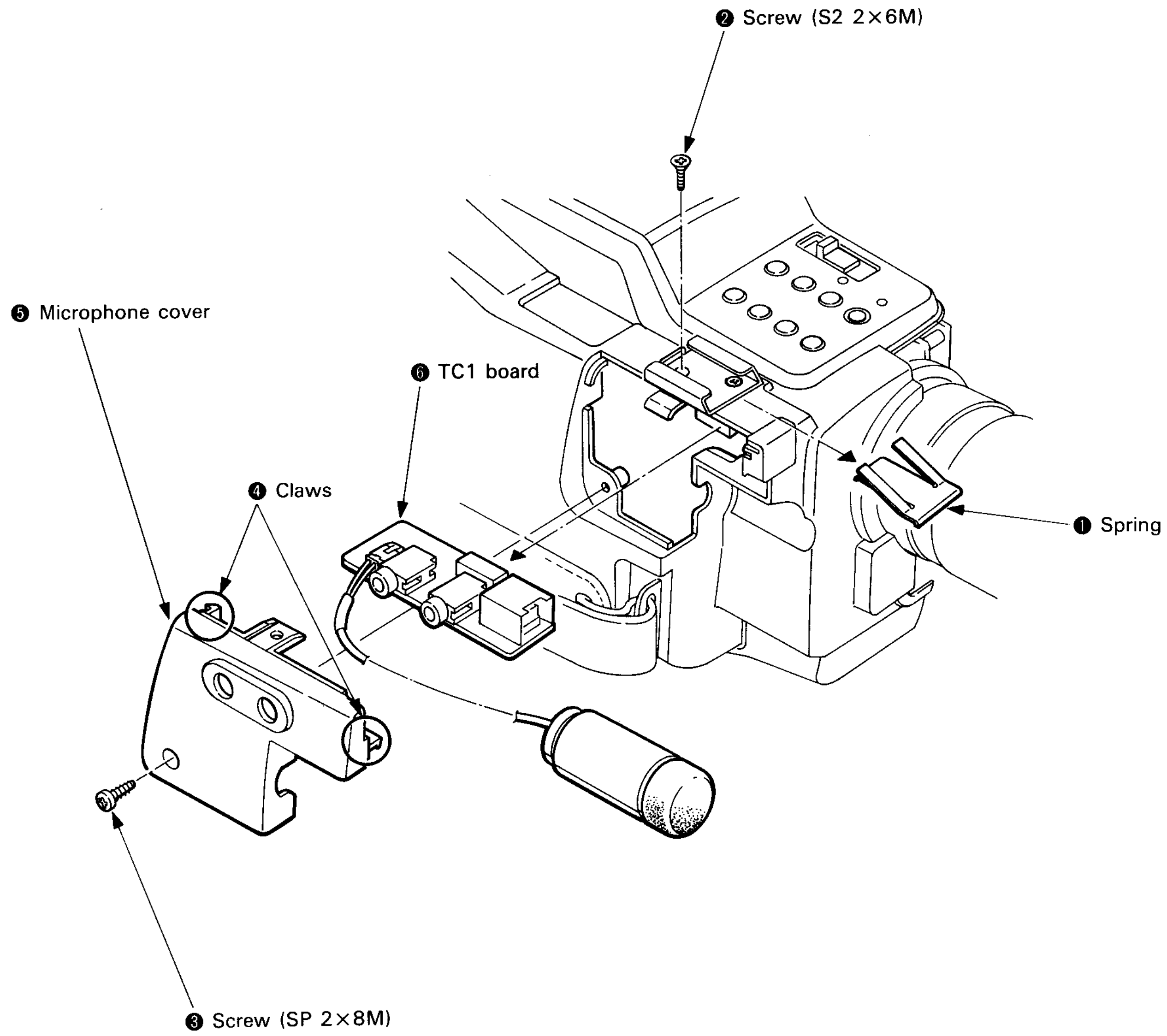
2-1. Removal of the cassette lid and cabinet (Left) (Only for FVC-P901)

1) Remove the two screws ❶, and remove the cassette lid ❷.
2) Remove the four screws ❸, screws ❹, three screws ❺, and last two screws ❻.
3) Remove the cabinet (left) ❼.


❶ Screw (S3 1.7×4)
❸ Screws (S2 2×6)
❼ Cabinet (left)
❷ Cassette lid
❻
Screws (S2 2×8)
❸
❺
❹ Screw (SP 2×4M)
❺ Screws (S2 2×8)
❸

2-2. Removal of TC1 board

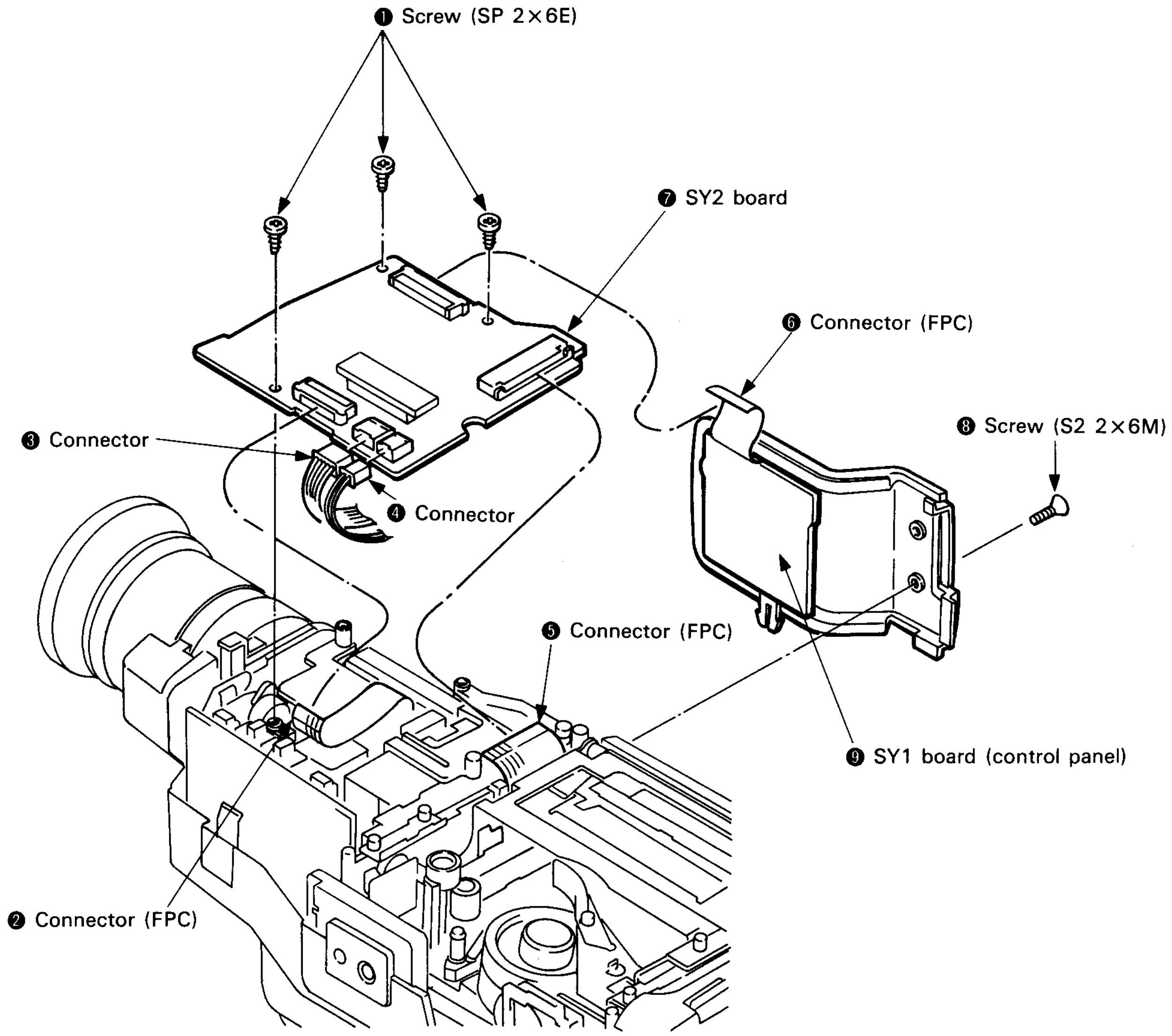
1) Remove the spring ❶ and the screw ❷.
2) Remove the screw ❸.
3) Remove the two claw ❹, and remove the microphone cover ❺.
4) Remove the TC1 board ❻ from the microphone cover ❺.



❷ Screw (S2 2×6M)
❺ Microphone cover
❻ TC1 board
❹ Claws
❶ Spring
❸ Screw (SP 2×8M)

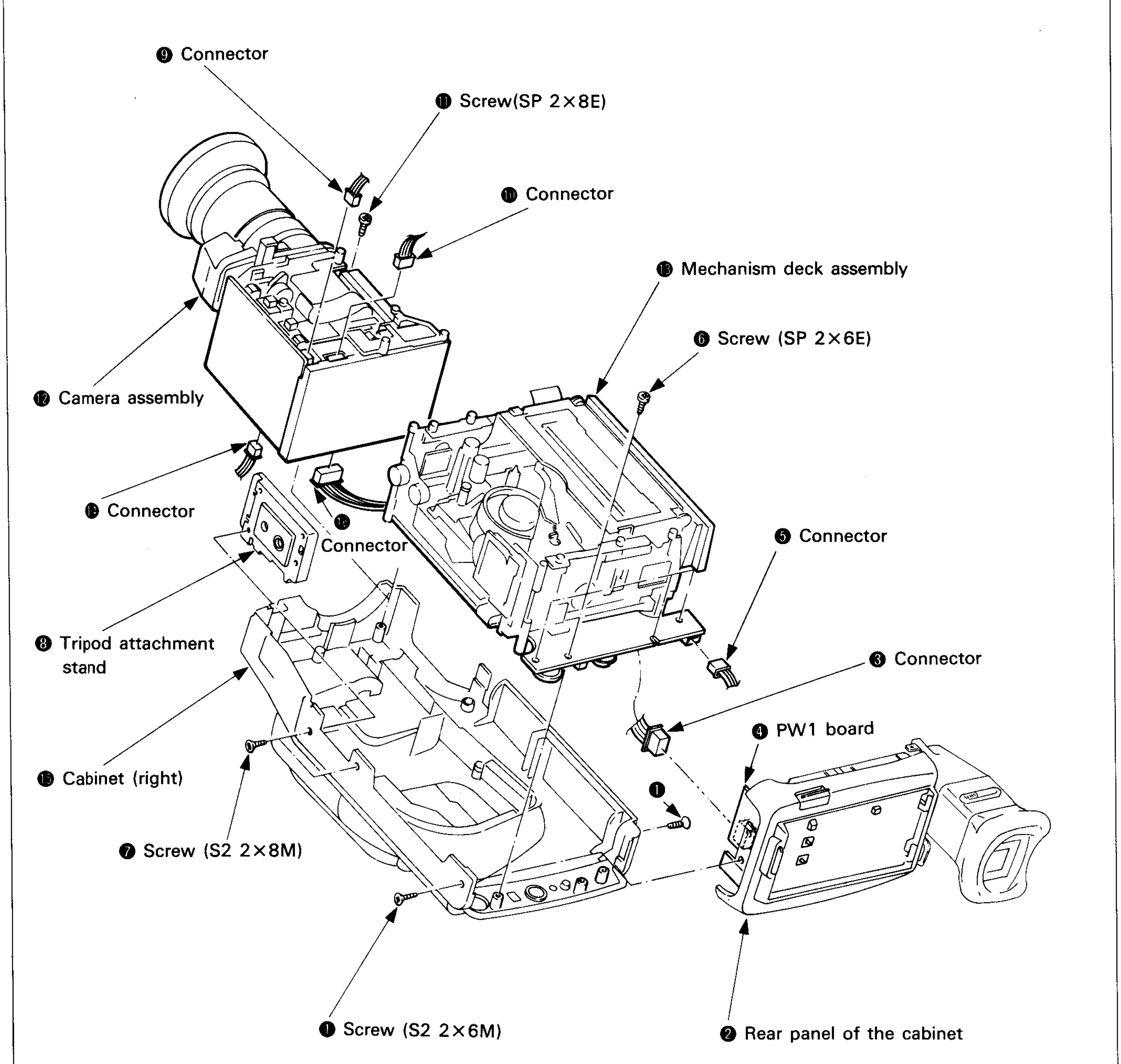
2-3. Removal of SY1 board and SY2 board

1) Remove the three screws ❶.
2) Remove the connectors ❷, ❸, ❹, ❺, ❻ and remove the SY2 board ❼.
3) Remove the screw ❽ and remove the SY1 board (control panel) ❾.


❶ Screw (SP 2×6E)
❼ SY2 board
❻ Connector (FPC)
❽ Screw (S2 2×6M)
❸ Connector
❹ Connector
❺ Connector (FPC)
❾ SY1 board (control panel)
❷ Connector (FPC)

2-4. Removal of camera assembly and mechanism deck assembly

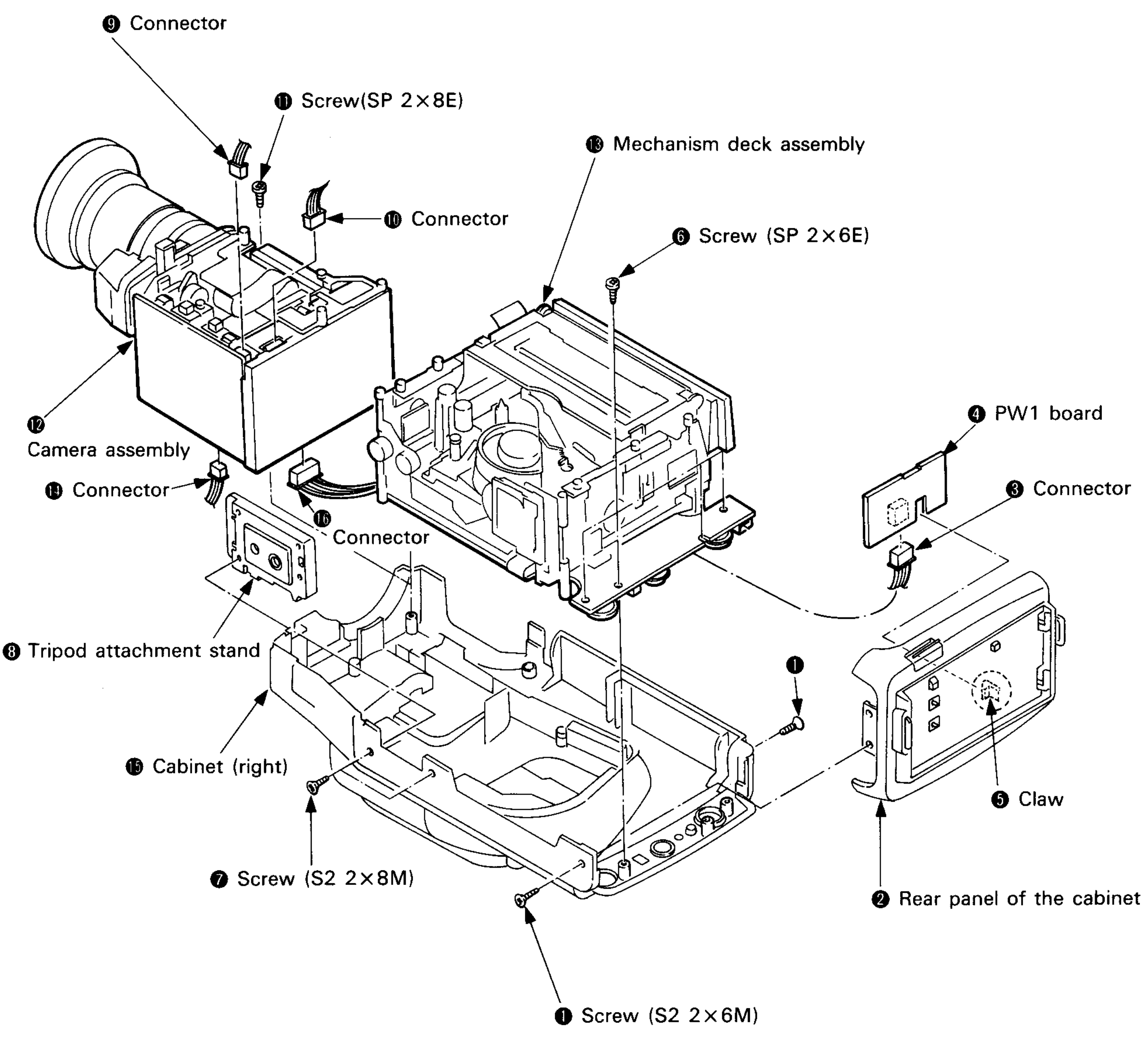
1) Remove the two screws ❶ and remove the rear panel of the cabinet ❷.
2) Remove the connector ❸ from the PW1 board ❹ and remove the connector ❺.
3) Remove the the four screws ❻.
4) Remove the two screws ❼ and remove the tripod attachment stand ❽.
5) Remove the connectors ❾, ❿ and remove the screw ⓫.
6) Lift the camera assembly ⓬ and mechanism deck assembly ⓭, remove the connector ⓮ and separate the cabinet (right) ⓯.
7) Remove the connector ⓰ and separate the camera assembly ⓬ and mechanism deck assembly ⓭ completely.



❾ Connector
⓫ Screw(SP 2×8E)
❿ Connector
⓭ Mechanism deck assembly
❻ Screw (SP 2×6E)
⓬ Camera assembly
⓮ Connector
⓰ Connector
❺ Connector
❽ Tripod attachment stand
❸ Connector
❹ PW1 board
⓯ Cabinet (right)
❶
❼ Screw (S2 2×8M)
❶ Screw (S2 2×6M)
❷ Rear panel of the cabinet

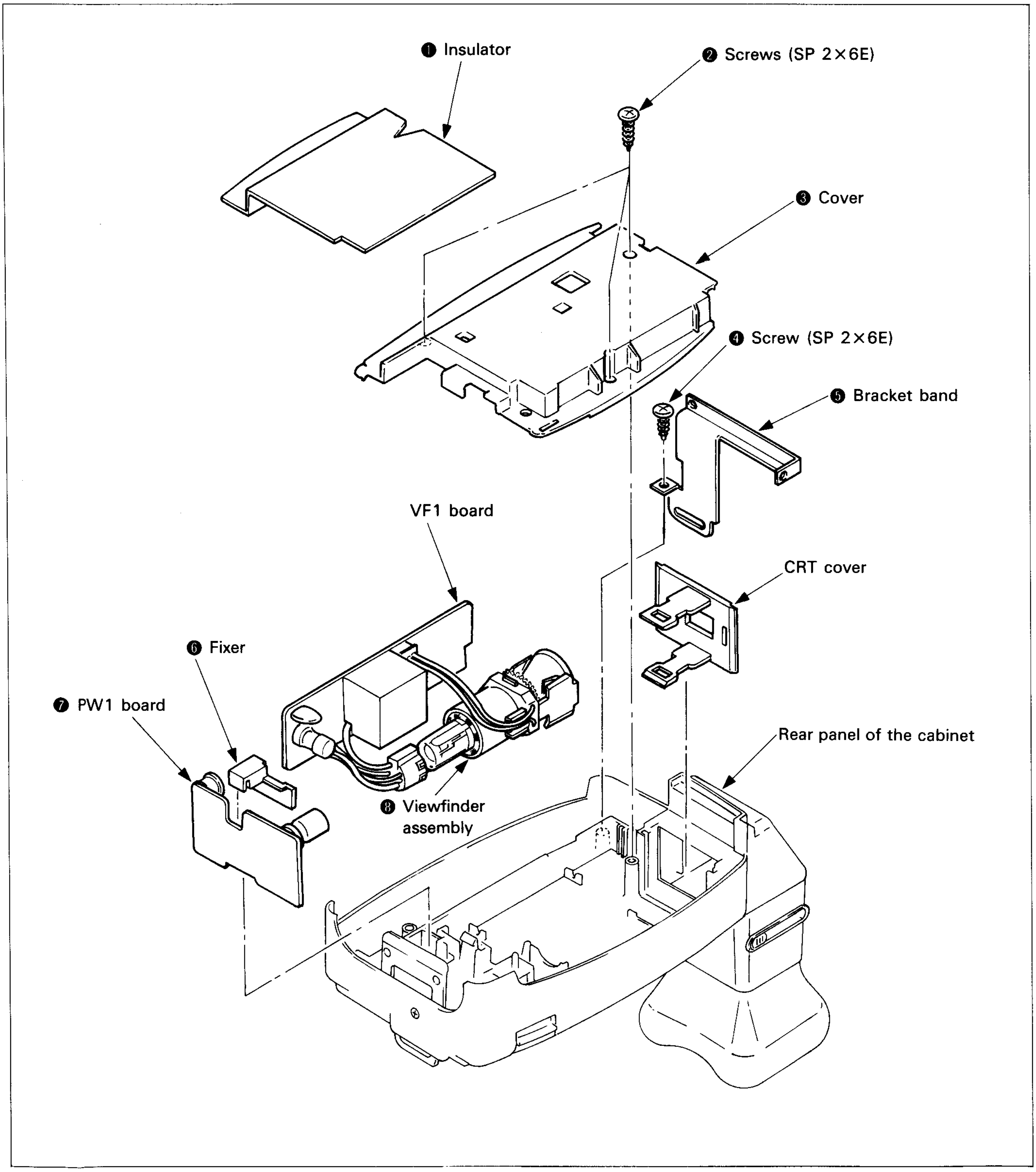
2-4. Removal of camera assembly and mechanism deck assembly (Only for FVC-P901)

1) Remove the two screws ❶ and remove the rear panel of the cabinet ❷.
2) Remove the connector ❸ and remove PW1 board ❹ from the claw ❺.
3) Remove the the four screws ❻.
4) Remove the two screws ❼ and remove the tripod attachment stand ❽.
5) Remove the connectors ❾, ❿ and remove the screw ⓫.
6) Lift the camera assembly ⓬ and mechanism deck assembly ⓭, remove the connector ⓮ and separate the cabinet (right) ⓯.
7) Remove the connector ⓰ and separate the camera assembly ⓬ and mechanism deck assembly ⓭ completely.


❾ Connector
⓫ Screw(SP 2×8E)
⓭ Mechanism deck assembly
❿ Connector
❻ Screw (SP 2×6E)
⓬ Camera assembly
❹ PW1 board
⓮ Connector
❸ Connector
⓰ Connector
❽ Tripod attachment stand
❶
⓯ Cabinet (right)
❺ Claw
❼ Screw (S2 2×8M)
❷ Rear panel of the cabinet
❶ Screw (S2 2×6M)

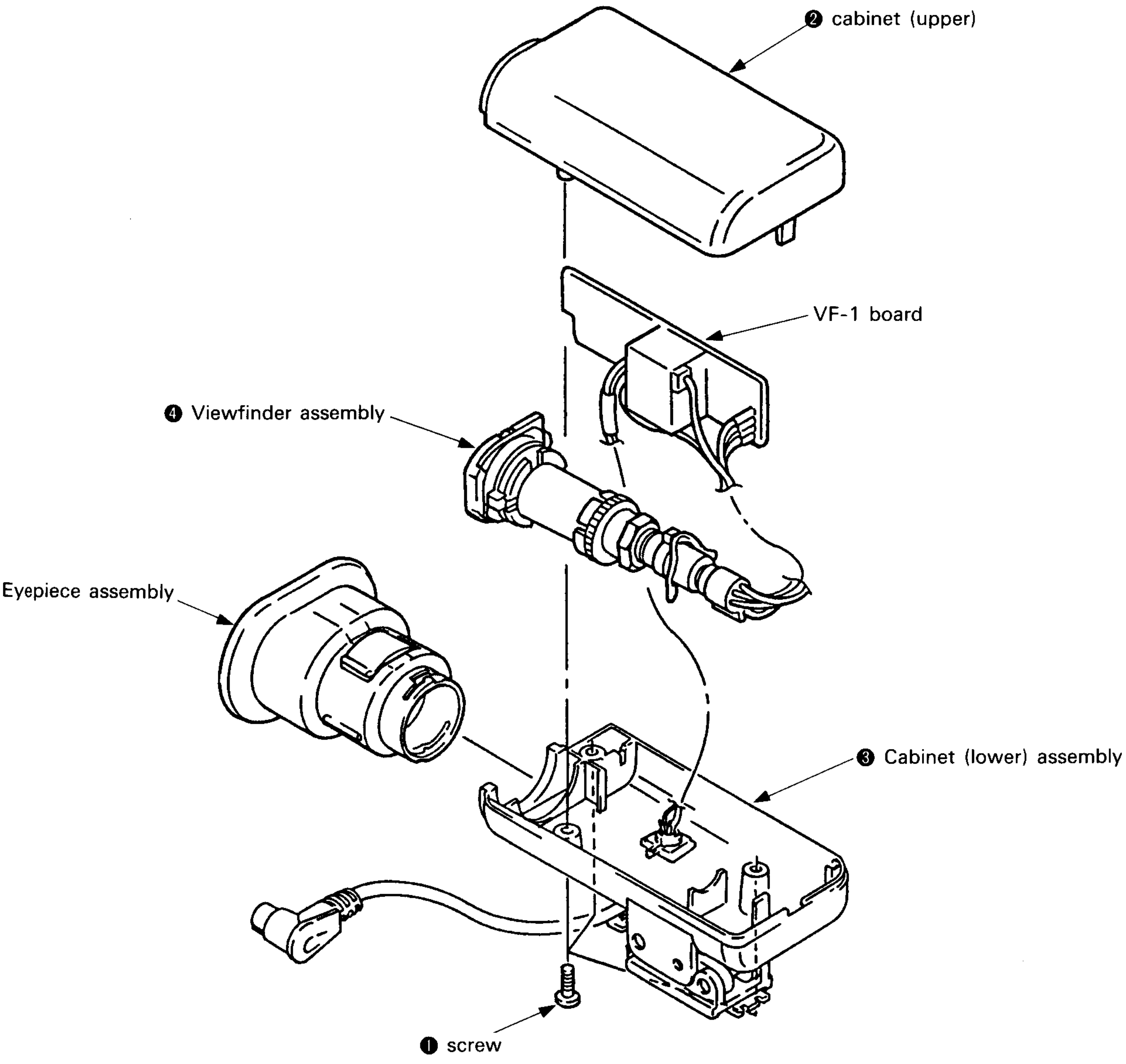
2-5. Removal of viewfinder assembly and PW1 board

1) Remove the insulator ❶.
2) Remove the three screws ❷ and remove the cover ❸.
3) Remove the serew ❹ and remove the bracket band ❺.
4) Remove the fixer ❻ and remove the PW1 board ❼.
5) Remove the viewfinder assembly ❽ from the rear panel of the cabinet.


❶ Insulator
❷ Screws (SP 2×6E)
❸ Cover
❹ Screw (SP 2×6E)
❺ Bracket band
VF1 board
CRT cover
❻ Fixer
❼ PW1 board
❽ Viewfinder assembly
Rear panel of the cabinet

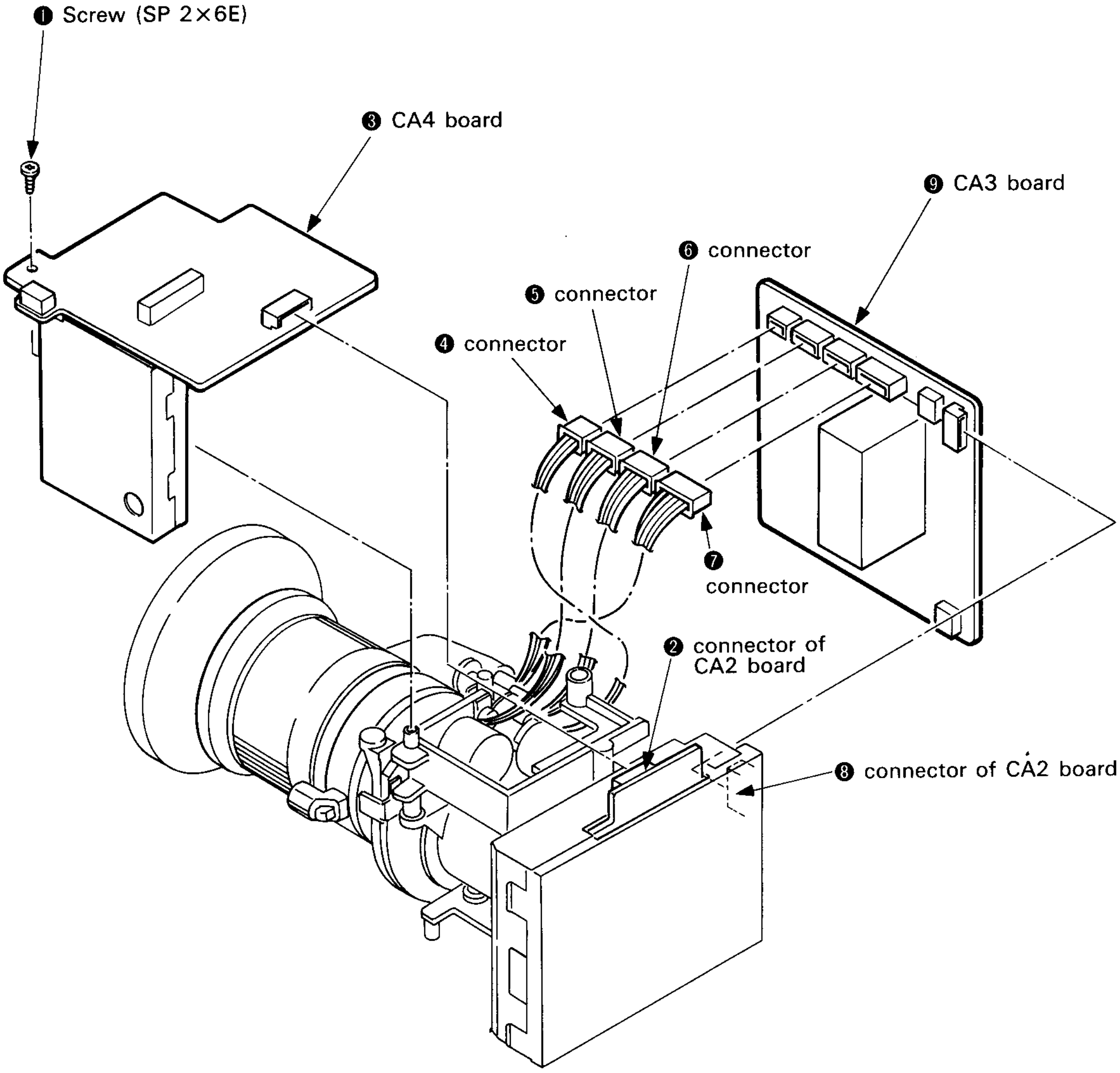
2-5. Removal of viewfinder assembly (Only for FVC-P901)

1) Remove the three screws ❶ and remove the cabinet upper ❷ and cabinet lower ❸.
2) Remove the viewfinder assembly ❹.


❷ cabinet (upper)
VF-1 board
❹ Viewfinder assembly
Eyepiece assembly
❸ Cabinet (lower) assembly
❶ screw

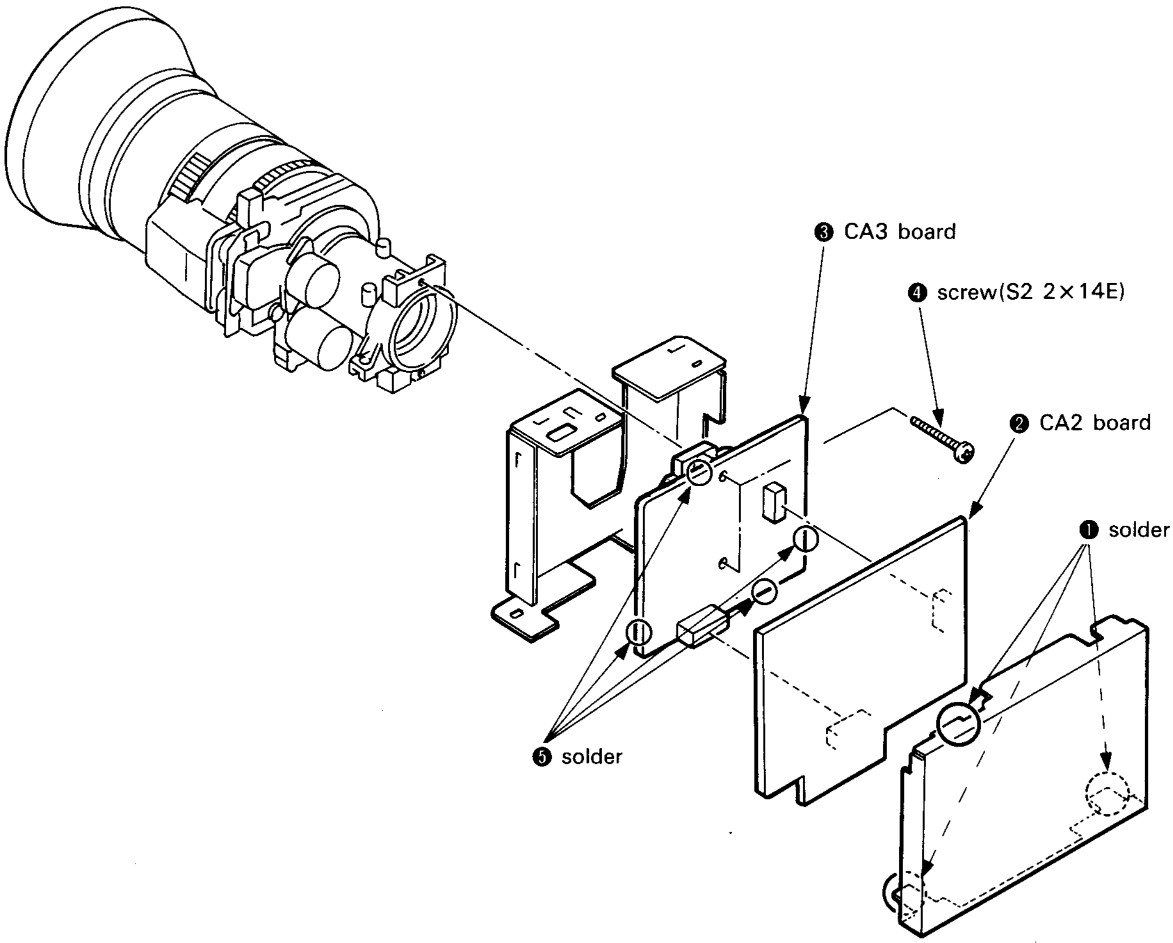
2-6. Removal of CA3 and CA4 boards

1) Remove the screw ❶ and remove the CA4 board ❸ from the connector ❷ of CA2 board.
2) Remove the connectors ❹, ❺, ❻, ❼ and remove the CA3 board ❾ from the connector ❽ of CA2 board.


❶ Screw (SP 2×6E)
❸ CA4 board
❾ CA3 board
❻ connector
❺ connector
❹ connector
❼ connector
❷ connector of CA2 board
❽ connector of CA2 board

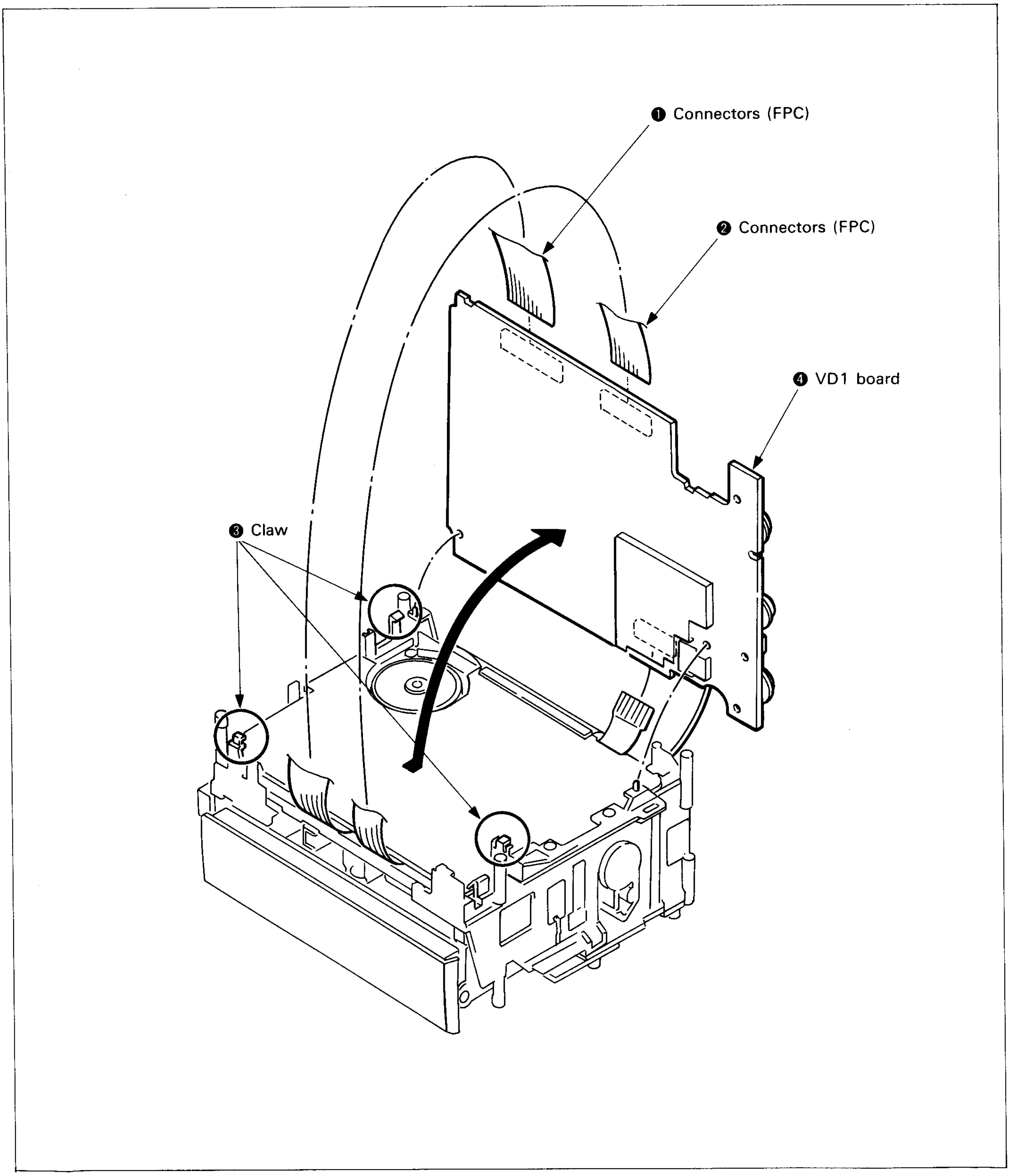
2-7. Removal of CA1 and CA2 boards

1) Remove the solders ❶ in three locations of the shield case.
2) Remove CA2 board ❷ from CA1 board ❸.
3) Remove the two screws ❹ and remove solders at four points and remove CA1 board ❸.


❸ CA3 board
❹ screw(S2 2×14E)
❷ CA2 board
❶ solder
❺ solder

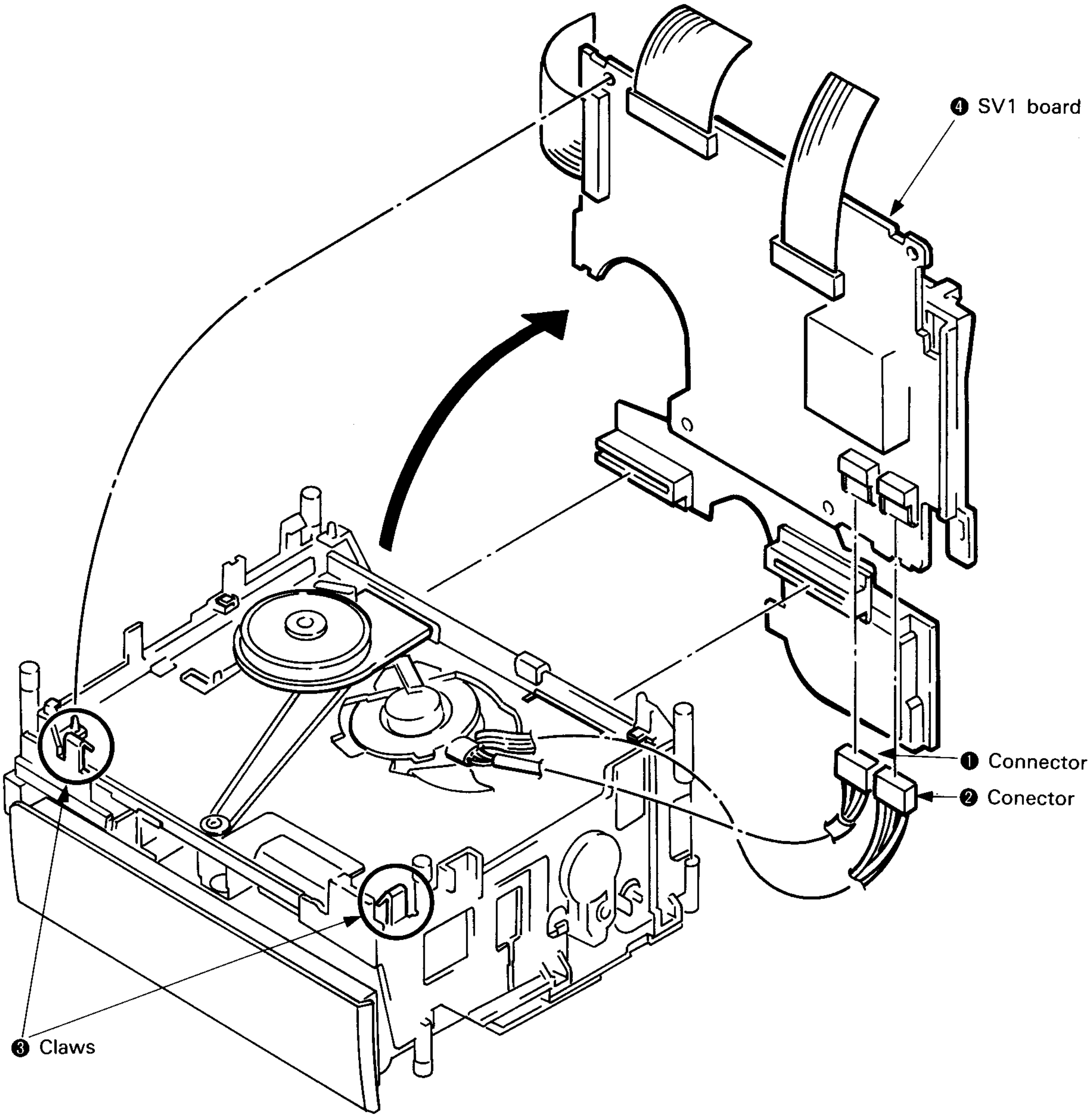
2-8. Removal of VD1 board

1) Remove the connectors ➊, ➋.
2) Remove the three claws ➌ and remove VD1 board ➍ in the direction of the arrow.


➊ Connectors (FPC)
➋ Connectors (FPC)
➍ VD1 board
➌ Claw

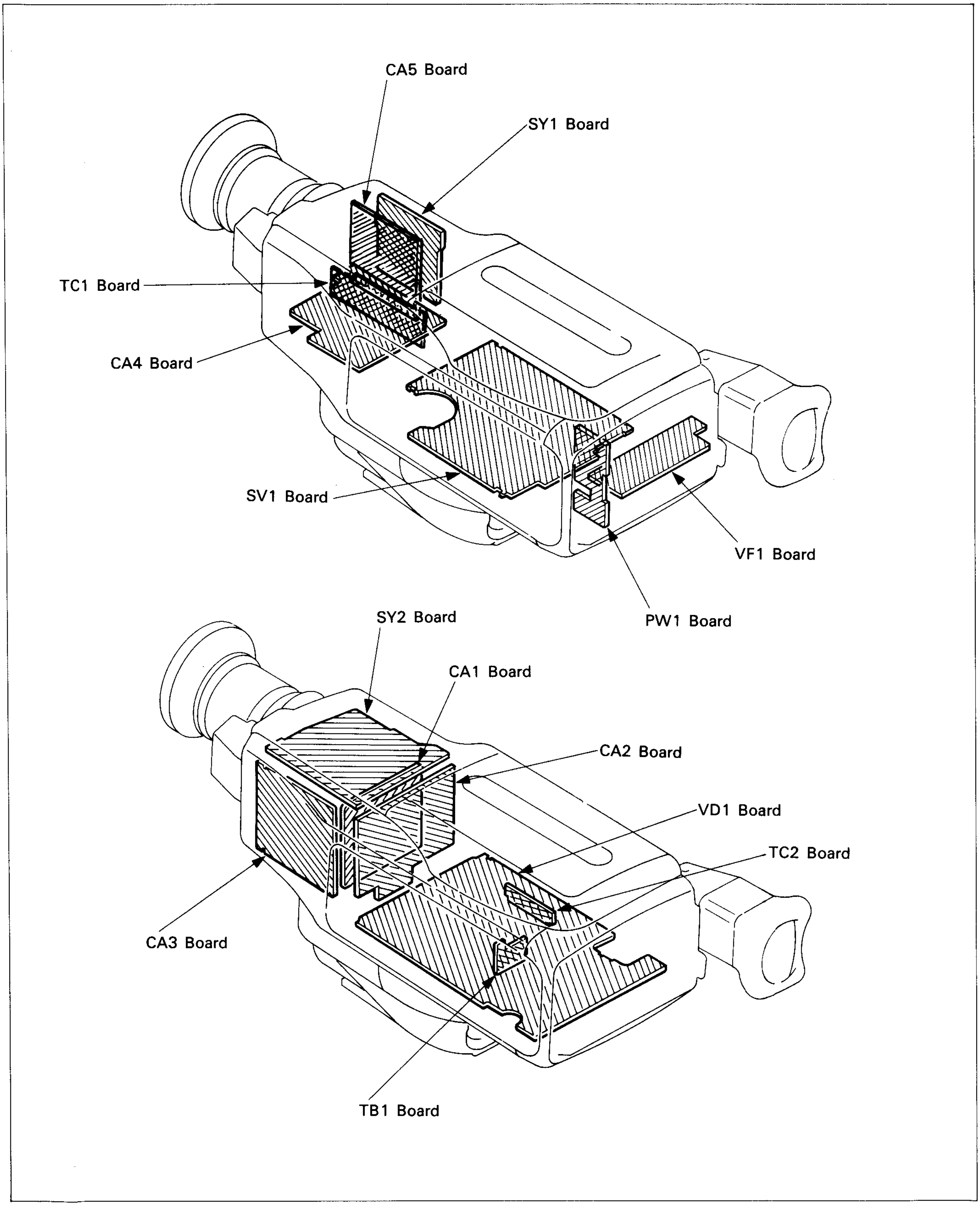
2-9. Removal of SV1 board

1) Remove the connectors ❶ and ❷.
2) Remove the two claws ❸ and remove SV1 board in the direction of the arrow.

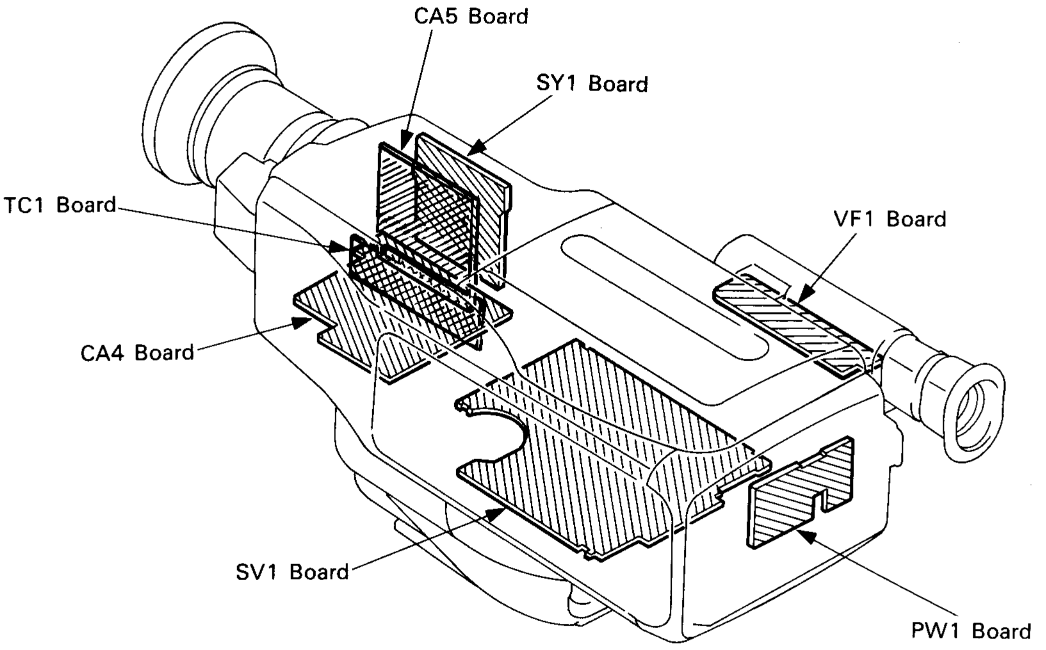

❹ SV1 board
❶ Connector
❷ Conector
❸ Claws

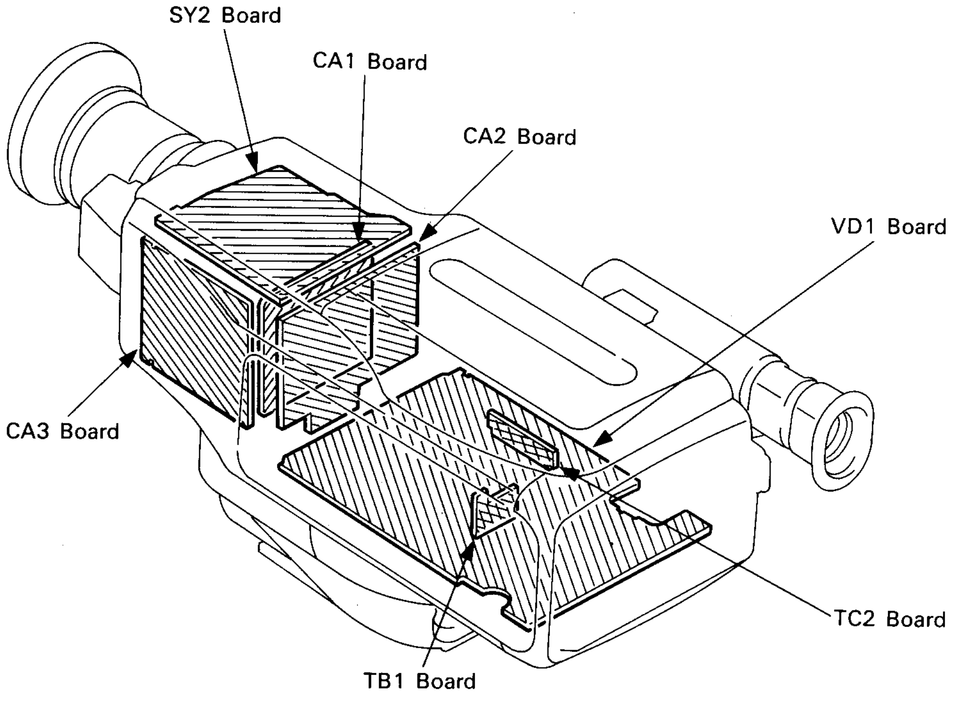
3. DIAGRAM

3-1. Board layout diagram

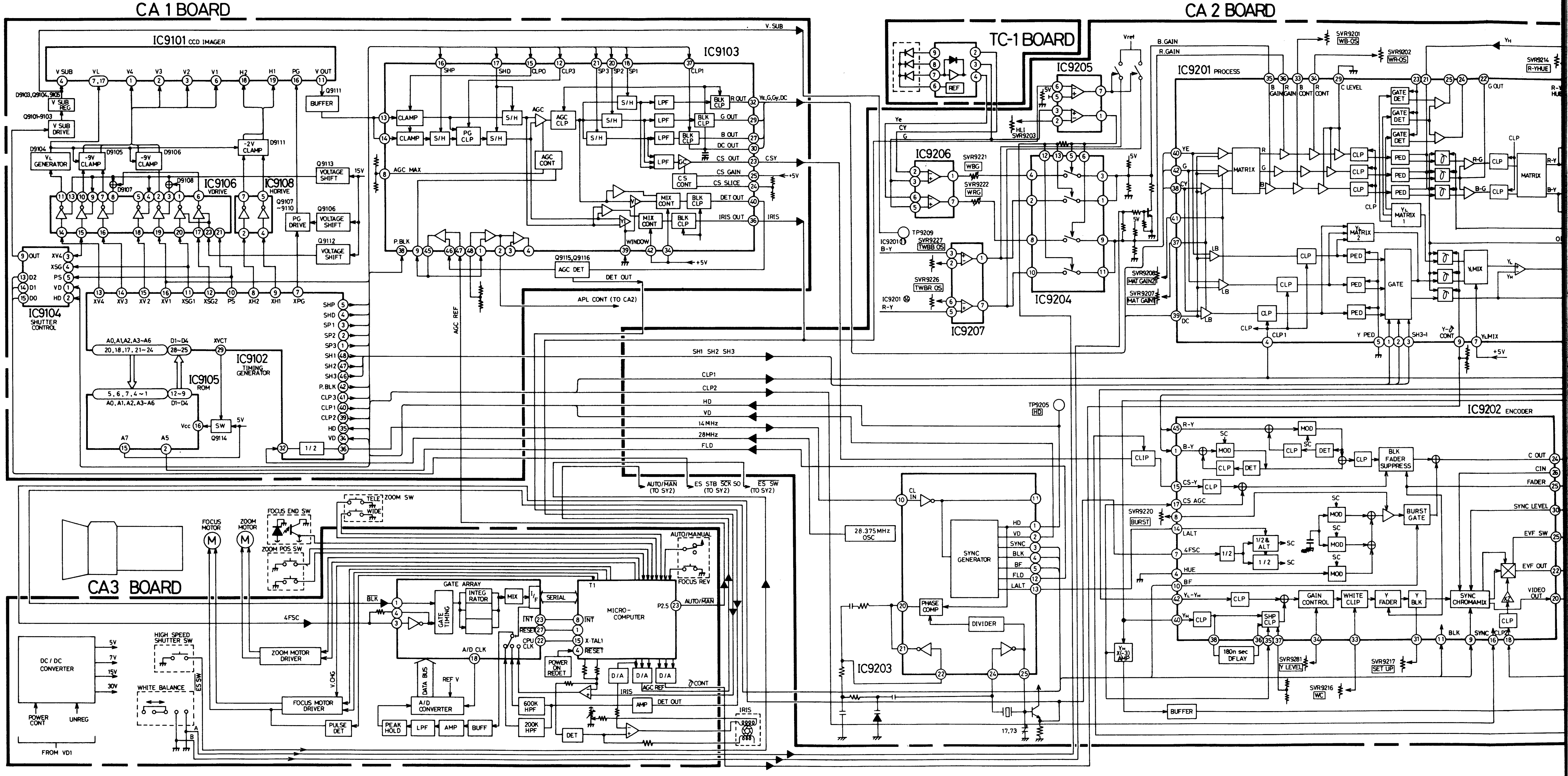

CA5 Board
SY1 Board
TC1 Board
CA4 Board
SV1 Board
VF1 Board
PW1 Board
SY2 Board
CA1 Board
CA2 Board
VD1 Board
TC2 Board
CA3 Board
TB1 Board

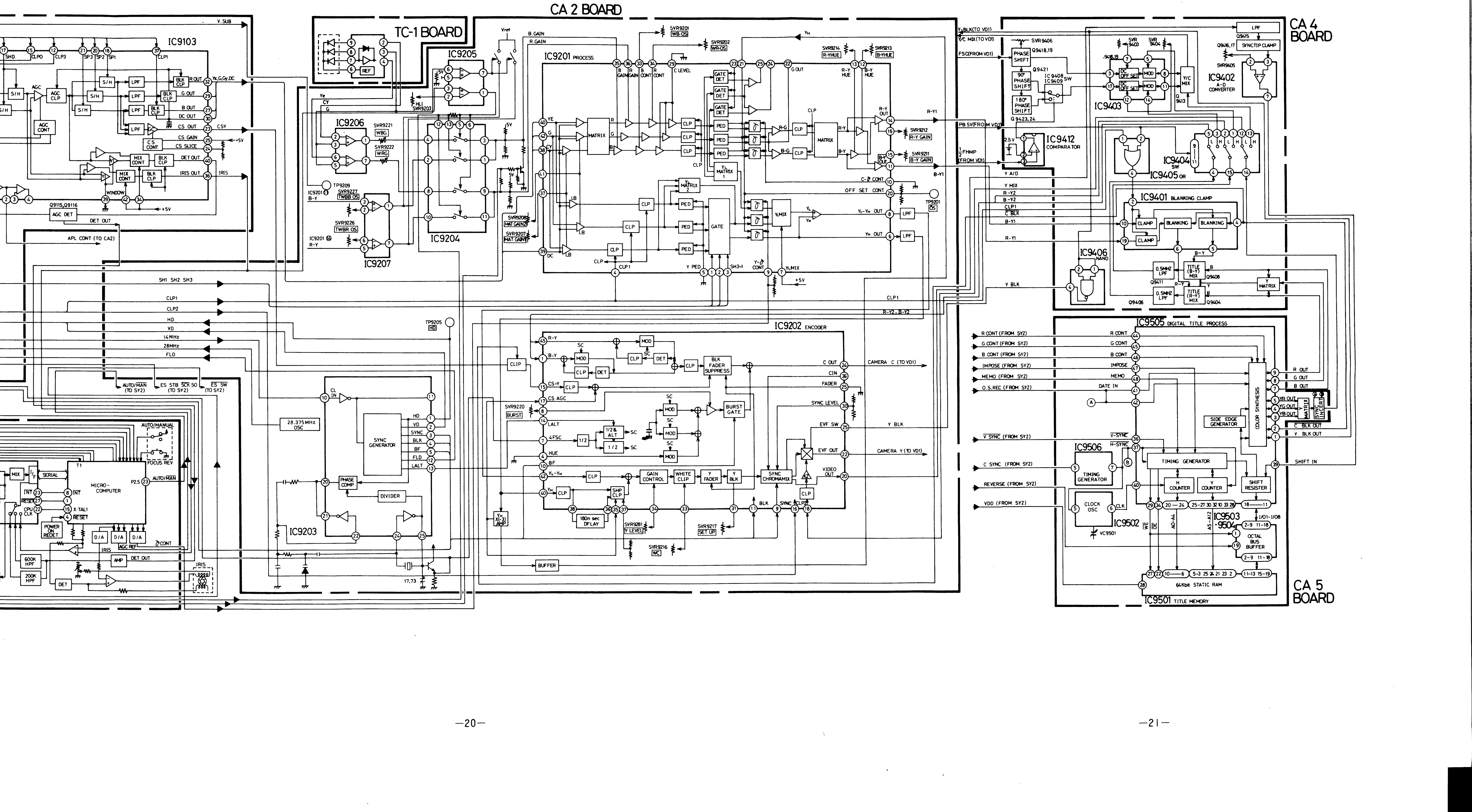
3-1. Board layout diagram
(Only for FVC-P901)


CA5 Board
SY1 Board
TC1 Board
VF1 Board
CA4 Board
SV1 Board
PW1 Board

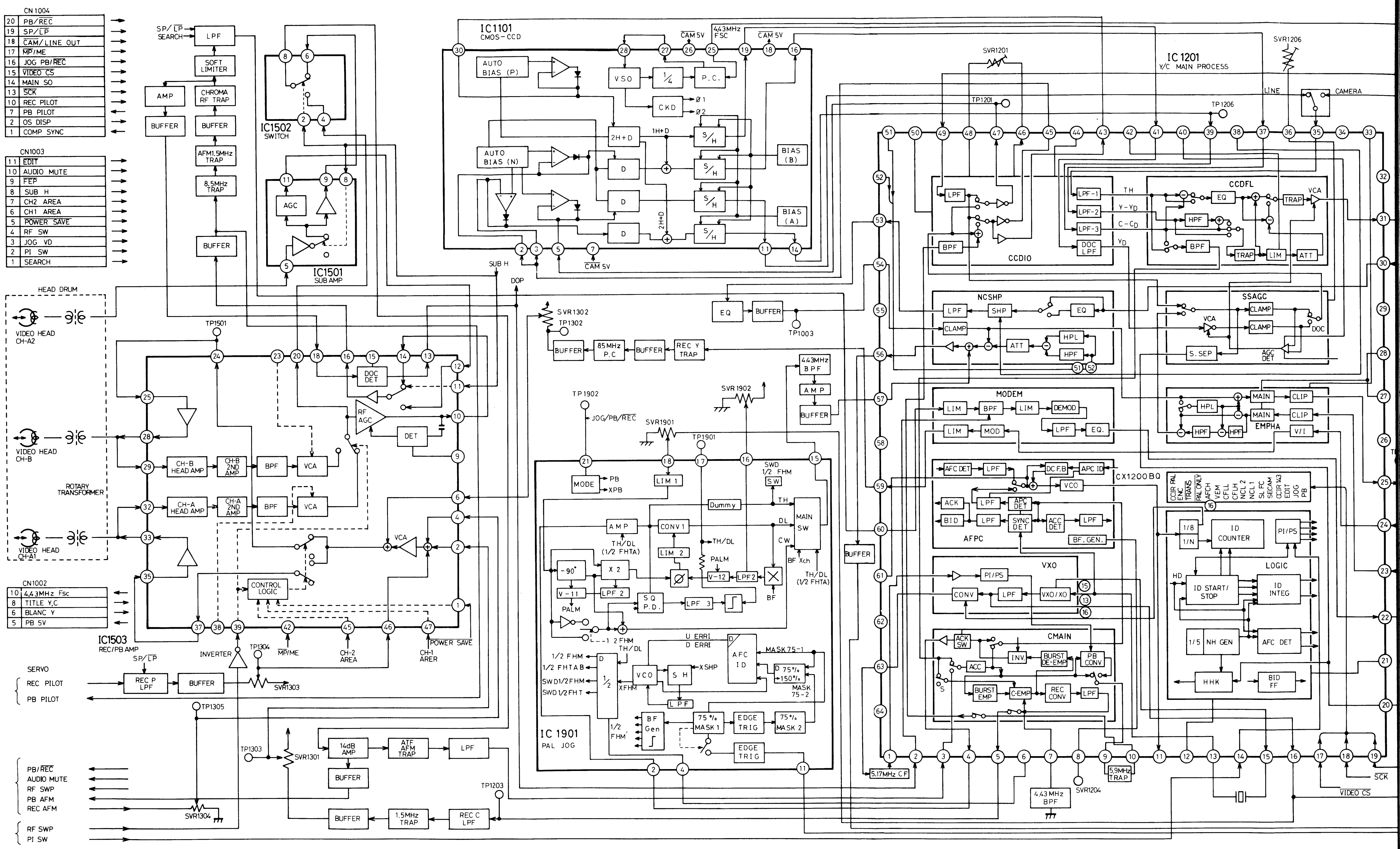

SY2 Board
CA1 Board
CA2 Board
VD1 Board
CA3 Board
TC2 Board
TB1 Board

3-2. Camera block diagram

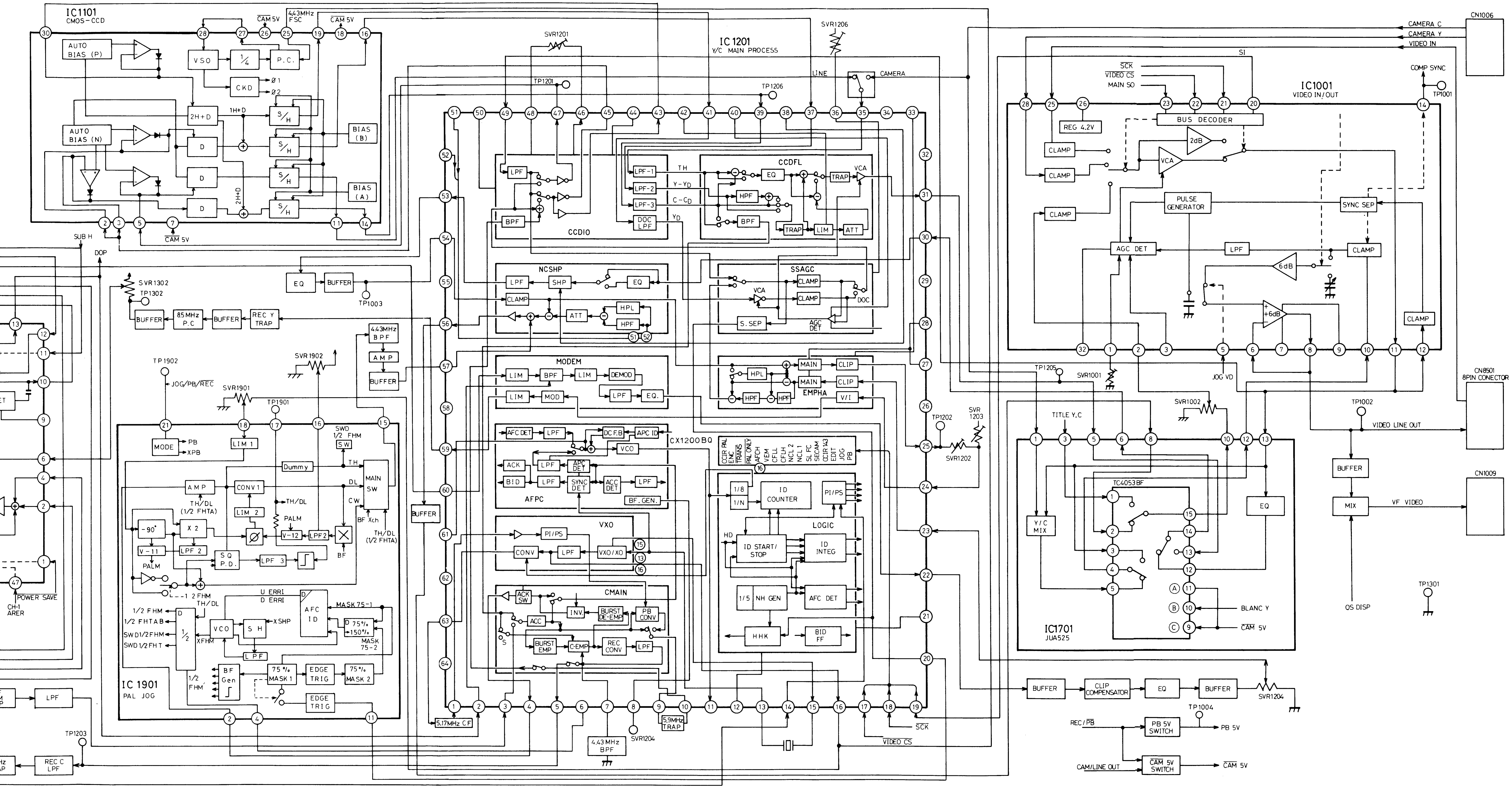

CA 1 BOARD
IC9101 CCD IMAGER
V.SUB
BUFFER
Q9111
VOLTAGE SHIFT
PG DRIVE
IC9106 VDRIVE
IC9108 HDRIVE
IC9104 SHUTTER CONTROL
IC9102 TIMING GENERATOR
IC9105 ROM
IC9103
CLAMP
S/H
PG CLP
AGC
AGC CLP
AGC CONT
LPF
BLK CLP
MIX CONT
CS CONT
R OUT
G OUT
B OUT
DC OUT
CS OUT
CS GAIN
CS SLICE
DET OUT
IRIS OUT
AGC MAX
WINDOW
AGC DET
Q9115,Q9116
APL CONT (TO CA2)
AGC REF
SH1 SH2 SH3
CLP1
CLP2
HD
VD
14MHz
28MHz
FLD
AUTO/MAN (TO SY2)
ES STB SCK SO (TO SY2)
ES SW (TO SY2)
CA3 BOARD
FOCUS MOTOR
ZOOM MOTOR
FOCUS END SW
ZOOM POS SW
TELE ZOOM SW WIDE
AUTO/MANUAL
FOCUS REV
GATE ARRAY
INTEG RATOR
GATE TIMING
MIX
SERIAL
MICRO-COMPUTER
4FSC
ZOOM MOTOR DRIVER
FOCUS MOTOR DRIVER
PULSE DET
A/D CONVERTER
PEAK HOLD
LPF
AMP
BUFF
DATA BUS
REF V
A/D CLK
POWER ON RESET
X-TAL1
RESET
D/A
IRIS
AGC REF
DET OUT
600K HPF
200K HPF
DET
HIGH SPEED SHUTTER SW
WHITE BALANCE
ES SW
DC/DC CONVERTER
5V
7V
15V
30V
POWER CONT
UNREG
FROM VD1
TC-1 BOARD
REF
IC9205
HL1 SVR9203
IC9206
SVR9221 WBG
SVR9222 WRG
TP9209
SVR9227 TWBB OS
SVR9226 TWBR OS
IC9207
IC9204
TP9205 HD
CA 2 BOARD
Vref
B.GAIN
R.GAIN
SVR9201 WB-OS
SVR9202 WR-OS
SVR9214 R-YHUE
IC9201 PROCESS
B GAIN
R GAIN
B CONT
R CONT
C LEVEL
GATE DET
G OUT
MATRIX
CLP
PED
Y MATRIX 1
Y MATRIX 2
GATE
YLMIX
SVR9208 MAT GAIN2
SVR9207 MAT GAIN1
Y PED
SH3-1
Y-Ŷ CONT
IC9202 ENCODER
MOD
DET
BLK FADER SUPRESS
C OUT
CIN
FADER
SYNC LEVEL
BURST GATE
SVR9220 BURST
CS AGC
LALT
1/2&ALT
1/2
HUE
BF
EVF SW
EVF OUT
VIDEO OUT
GAIN CONTROL
WHITE CLIP
Y FADER
Y BLK
SYNC CHROMAMIX
SHP CLP
180n sec DELAY
SVR9281 Y LEVEL
SVR9217 SET UP
SVR9216 WC
BUFFER
YH X(-3) AMP
28.375MHz OSC
SYNC GENERATOR
PHASE COMP
DIVIDER
IC9203
17,73


CA 2 BOARD
TC-1 BOARD
CA 4 BOARD
CA 5 BOARD
IC9103
IC9201 PROCESS
IC9202 ENCODER
IC9203
IC9204
IC9205
IC9206
IC9207
IC9401 BLANKING CLAMP
IC9402 A-D CONVERTER
IC9403
IC9404 SW
IC9405 OR
IC9406 NAND
IC9412 COMPARATOR
IC9505 DIGITAL TITLE PROCESS
IC9506
IC9502
IC9503 · 9504
IC9501 TITLE MEMORY
MATRIX
GATE
SYNC GENERATOR
MICRO-COMPUTER
28.375MHz OSC
TIMING GENERATOR
H COUNTER
V COUNTER
SHIFT RESISTER
COLOR SYNTHESIS
SIDE EDGE GENERATOR
OCTAL BUS BUFFER
64Kbit STATIC RAM
CLOCK OSC
PHASE SHIFT
90° PHASE SHIFT
180° PHASE SHIFT
SYNCTIP CLAMP
LPF
BURST GATE
BLK FADER SUPPRESS
GAIN CONTROL
WHITE CLIP
Y FADER
Y BLK
SYNC CHROMAMIX
BUFFER
180n sec DELAY
V.SUB
SH1 SH2 SH3
CLP1
CLP2
HD
VD
14MHz
28MHz
FLD
AUTO/MAN (TO SY2)
ES STB SCK SO (TO SY2)
ES SW (TO SY2)
APL CONT (TO CA2)
CAMERA C (TO VD1)
CAMERA Y (TO VD1)
Y BLK (TO VD1)
Y/C MIX (TO VD1)
FSC (FROM VD1)
PB 5V (FROM VD1)
1/2 FHMP (FROM VD1)
R CONT (FROM SY2)
G CONT (FROM SY2)
B CONT (FROM SY2)
IMPOSE (FROM SY2)
MEMO (FROM SY2)
O.S.REC (FROM SY2)
V SYNC (FROM SY2)
C SYNC (FROM SY2)
REVERSE (FROM SY2)
VDD (FROM SY2)
SHIFT IN
R OUT
G OUT
B OUT
C BLK OUT
Y BLK OUT
R-Y1
B-Y1
Y A/D
Y MIX
R-Y2
B-Y2
R-Y2, B-Y2
SVR9201 WB-OS
SVR9202 WR-OS
SVR9203
SVR9211 B-Y GAIN
SVR9212 R-Y GAIN
SVR9213 B-YHUE
SVR9214 R-YHUE
SVR9216 WC
SVR9217 SET UP
SVR9220 BURST
SVR9221 WBG
SVR9222 WRG
SVR9226 TWBR OS
SVR9227 TWBB OS
SVR9281 Y LEVEL
SVR9406
TP9201 OS
TP9205 HD
TP9209
AGC
AGC CONT
AGC DET
S/H
CS CONT
MIX CONT
BLK CLP
IRIS
FOCUS REV
AUTO/MANUAL
POWER ON RESET
600K HPF
200K HPF
17.73
VC9501

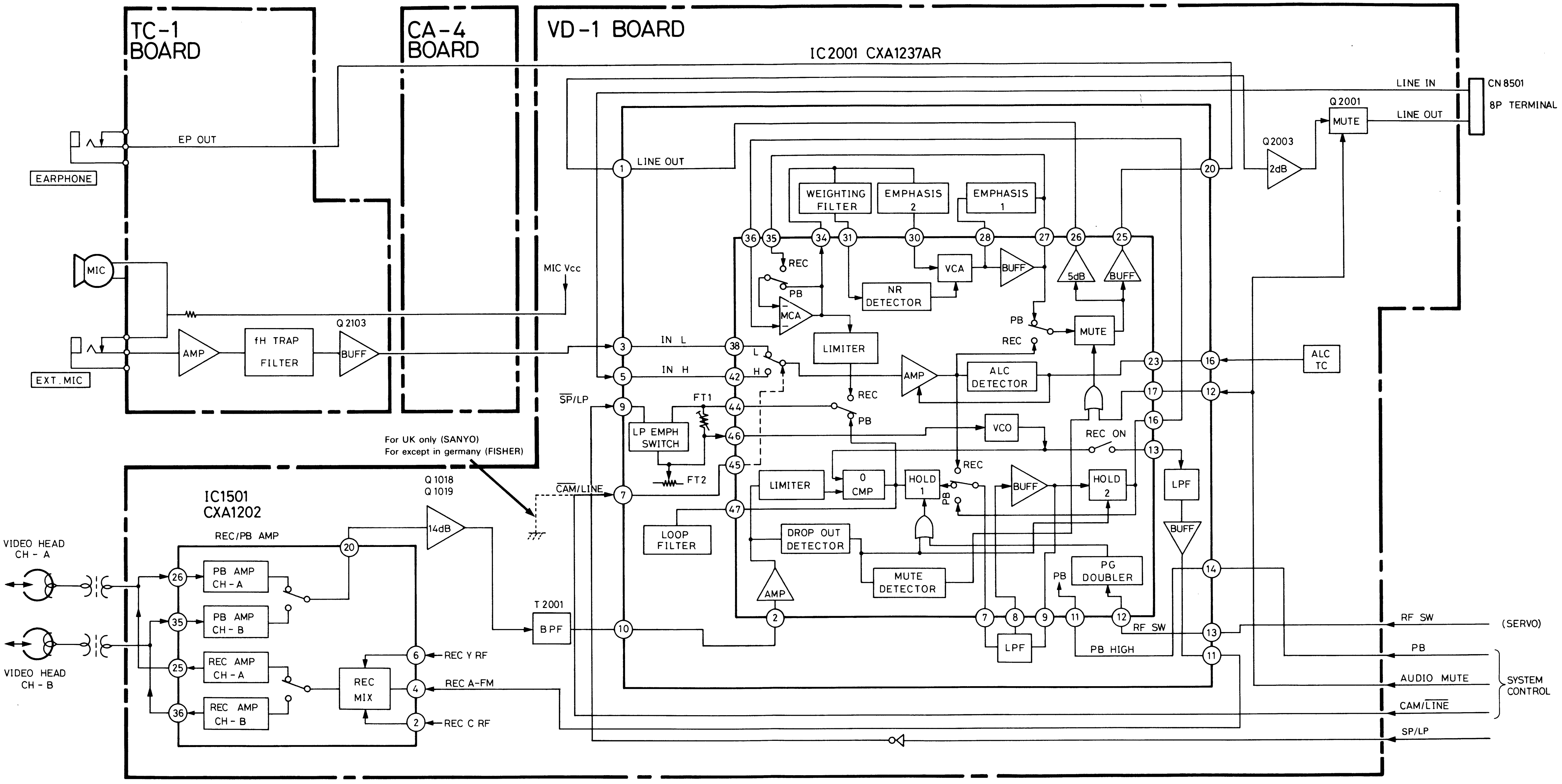
3-3. Video block diagram



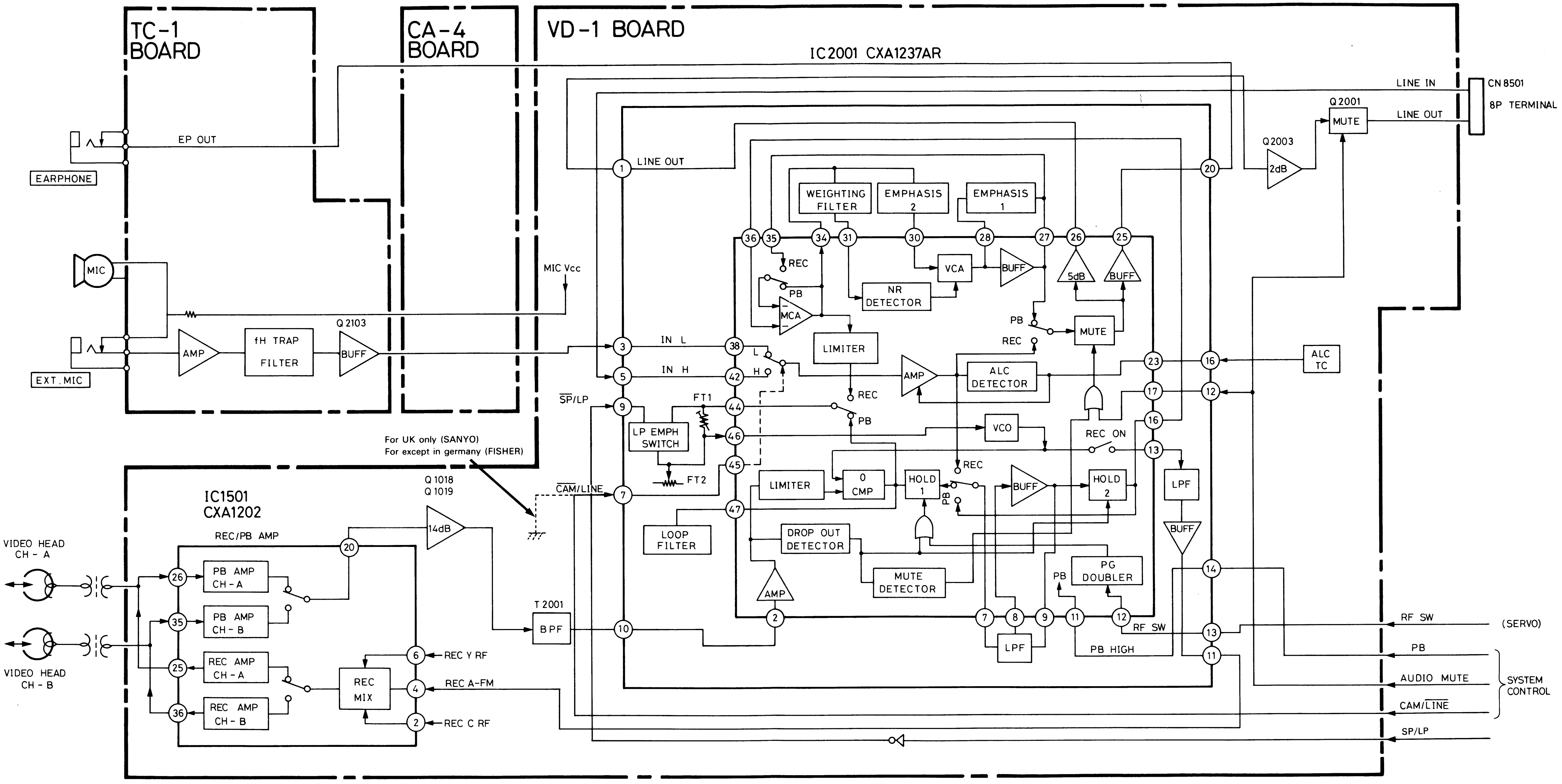
CN1004
20 PB/REC
19 SP/LP
18 CAM/LINE OUT
17 MP/ME
16 JOG PB/REC
15 VIDEO CS
14 MAIN SO
13 SCK
10 REC PILOT
7 PB PILOT
2 OS DISP
1 COMP SYNC
CN1003
11 EDIT
10 AUDIO MUTE
9 FEP
8 SUB H
7 CH2 AREA
6 CH1 AREA
5 POWER SAVE
4 RF SW
3 JOG VD
2 PI SW
1 SEARCH
HEAD DRUM
VIDEO HEAD CH-A2
VIDEO HEAD CH-B
ROTARY TRANSFORMER
VIDEO HEAD CH-A1
CN1002
10 4.43MHz Fsc
8 TITLE Y,C
6 BLANC Y
5 PB 5V
IC1503 REC/PB AMP
SP/LP SEARCH
LPF
SOFT LIMITER
AMP
BUFFER
CHROMA RF TRAP
AFM1.5MHz TRAP
8.5MHz TRAP
IC1502 SWITCH
AGC
IC1501 SUB AMP
TP1501
DOC DET
RF AGC
DET
CH-B HEAD AMP
CH-B 2ND AMP
CH-A HEAD AMP
CH-A 2ND AMP
BPF
VCA
CONTROL LOGIC
INVERTER
TP1304
MP/ME
CH-2 AREA
CH-1 ARER
POWER SAVE
SERVO
REC PILOT
PB PILOT
REC P LPF
SVR1303
TP1305
TP1303
SVR1301
14dB AMP
ATF AFM TRAP
1.5MHz TRAP
REC C LPF
TP1203
PB/REC
AUDIO MUTE
RF SWP
PB AFM
REC AFM
SVR1304
PI SW
IC1101 CMOS-CCD
AUTO BIAS (P)
AUTO BIAS (N)
VSO
1/4
P.C.
CKD
Ø1
Ø2
2H+D
1H+D
D
S/H
BIAS (B)
BIAS (A)
CAM 5V
4.43MHz FSC
SUB H
DOP
SVR1302
TP1302
85MHz P.C.
REC Y TRAP
EQ
TP1003
4.43MHz BPF
TP1902
JOG/PB/REC
SVR1901
TP1901
SVR1902
MODE
PB
XPB
LIM 1
SWD 1/2 FHM
SW
Dummy
TH
MAIN SW
DL
CW
CONV 1
TH/DL (1/2 FHTA)
LIM 2
PALM
-90°
X 2
V-11
LPF 2
V-12
SQ P.D.
LPF 3
BF
BF Xch
TH/DL (1/2 FHTA)
1/2 FHM
U ERRI
D ERRI
AFC ID
MASK 75-1
1/2 FHTAB
SWD1/2FHM
SWD1/2FHT
VCO
S H
XSHP
XFHM
75%
150%
MASK 75-2
BF Gen
75% MASK 1
EDGE TRIG
75% MASK 2
IC 1901 PAL JOG
IC 1201 Y/C MAIN PROCESS
SVR1201
TP1201
SVR1206
TP1206
LINE
CAMERA
CCDFL
LPF-1
LPF-2
LPF-3
DOC LPF
Y-YD
C-CD
YD
HPF
TRAP
LIM
ATT
CCDIO
NCSHP
SHP
CLAMP
HPL
SSAGC
S.SEP
AGC DET
DOC
MODEM
DEMOD
EQ.
MAIN
CLIP
EMPHA
V/I
AFC DET
DC F.B
APC ID
VCO
ACK
APC DET
BID
SYNC DET
ACC DET
BF. GEN.
AFPC
CX1200BQ
CCIR PAL
ENC
TRANS
PAL ONLY
AFCH
VEM
CFLL
CFLH
NCL2
NCL1
SL FC
SECAM
CCIR 143
EDIT
JOG
PB
1/8
1/N
ID COUNTER
PI/PS
VXO
CONV
VXO/XO
LOGIC
HD
ID START/STOP
ID INTEG
CMAIN
ACK SW
INV.
BURST DE-EMP
PB CONV
ACC
BURST EMP
C-EMP
REC CONV
1/5
NH GEN
AFC DET
HHK
BID FF
5.17MHz CF
4.43MHz BPF
SVR1204
5.9MHz TRAP
SCK
VIDEO CS
BUFFER

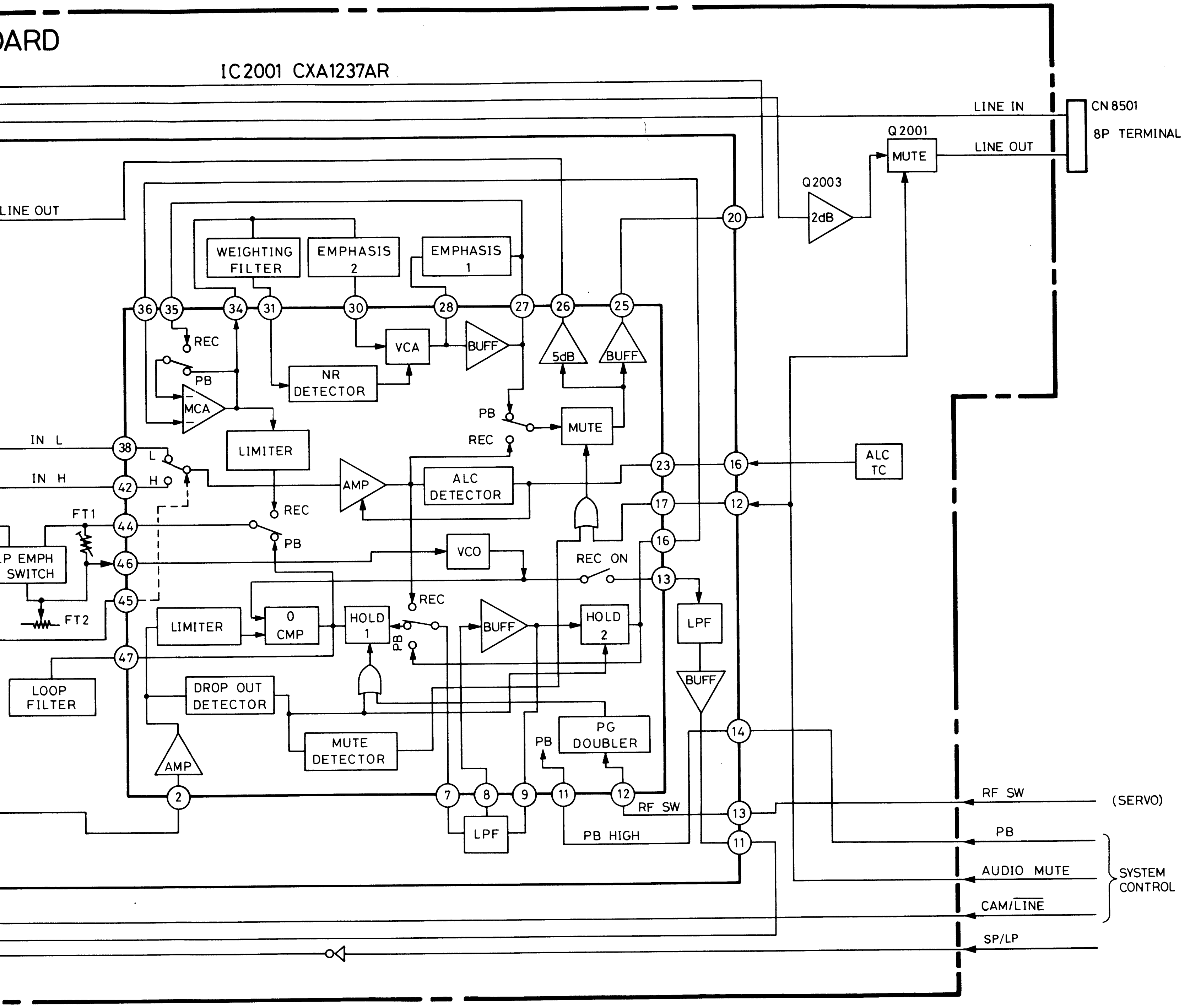

IC1101
CMOS-CCD
AUTO BIAS (P)
AUTO BIAS (N)
VSO
1/4
P.C.
CKD
2H+D
1H+D
S/H
BIAS (B)
BIAS (A)
D
CAM 5V
4.43MHz FSC
SUB H
DOP
SVR1302
TP1302
BUFFER
85MHz P.C
REC Y TRAP
EQ
TP1003
4.43MHz BPF
AMP
IC1201
Y/C MAIN PROCESS
SVR1201
TP1201
TP1206
SVR1206
LINE
CAMERA
CCDIO
CCDFL
LPF-1
LPF-2
LPF-3
DOC LPF
TH
Y-YD
C-CD
YD
BPF
HPF
TRAP
LIM
ATT
VCA
NCSHP
SHP
CLAMP
HPL
SSAGC
S. SEP
AGC DET
DOC
MODEM
DEMOD
MOD
EQ.
EMPHA
MAIN
CLIP
V/I
AFPC
AFC DET
DC F.B
APC ID
APC DET
VCO
ACK
BID
SYNC DET
ACC DET
BF. GEN.
CX1200BQ
CCIR PAL
ENC
TRANS
PAL ONLY
AFCH
VEM
CFLL
CFLH
NCL 2
NCL 1
SL PC
SECAM
CCIR 143
EDIT
JOG
PB
VXO
PI/PS
CONV
VXO/XO
CMAIN
ACK SW
INV
BURST DE-EMP
PB CONV
ACC
BURST EMP
C-EMP
REC CONV
1/8
1/N
ID COUNTER
LOGIC
HD
ID START/STOP
ID INTEG
1/5
NH GEN
AFC DET
HHK
BID FF
5.17MHz CF
4.43MHz BPF
SVR1204
5.9MHz TRAP
SCK
VIDEO CS
TP1902
JOG/PB/REC
SVR1901
TP1901
SVR1902
MODE
PB
XPB
LIM 1
SWD 1/2 FHM
SW
Dummy
MAIN SW
AMP
CONV 1
TH/DL
TH/DL (1/2 FHTA)
LIM 2
PALM
X 2
-90°
V-11
LPF 2
V-12
LPF2
BF Xch
TH/DL (1/2 FHTA)
BF
SQ P.D.
LPF 3
PALM
1/2 FHM
U ERRI
D ERRI
AFC ID
MASK 75-1
75%
150%
MASK 75-2
1/2 FHM
1/2 FHTAB
SWD1/2FHM
SWD 1/2 FHT
D
1/2
VCO
XFHM
S H
XSHP
LPF
BF Gen
75% MASK 1
EDGE TRIG
75% MASK 2
IC 1901
PAL JOG
POWER SAVE
CH-1
ARER
LPF
TP1203
REC C LPF
CN1006
CAMERA C
CAMERA Y
VIDEO IN
SI
SCK
VIDEO CS
MAIN SO
COMP SYNC
TP1001
IC1001
VIDEO IN/OUT
REG 4.2V
BUS DECODER
2dB
CLAMP
VCA
PULSE GENERATOR
SYNC SEP
AGC DET
LPF
6dB
+6dB
JOG VD
TP1205
SVR1001
SVR1002
TP1202
SVR 1203
SVR1202
TITLE Y,C
TC4053BF
Y/C MIX
EQ
BLANC Y
CAM 5V
IC1701
JUA525
CN8501
8PIN CONECTOR
TP1002
VIDEO LINE OUT
BUFFER
MIX
VF VIDEO
CN1009
TP1301
OS DISP
BUFFER
CLIP COMPENSATOR
EQ
BUFFER
SVR1204
TP1004
REC/PB
PB 5V SWITCH
PB 5V
CAM/LINE OUT
CAM 5V SWITCH
CAM 5V

3-4. Audio block diagram


TC-1 BOARD
CA-4 BOARD
VD-1 BOARD
IC2001 CXA1237AR
EP OUT
EARPHONE
MIC
MIC Vcc
AMP
fH TRAP FILTER
Q2103
BUFF
EXT. MIC
LINE OUT
WEIGHTING FILTER
EMPHASIS 2
EMPHASIS 1
REC
PB
MCA
VCA
BUFF
NR DETECTOR
5dB
BUFF
MUTE
LIMITER
IN L
IN H
L
H
AMP
ALC DETECTOR
SP/LP
FT1
LP EMPH SWITCH
FT2
VCO
REC ON
LIMITER
0 CMP
HOLD 1
HOLD 2
LPF
LOOP FILTER
DROP OUT DETECTOR
MUTE DETECTOR
PG DOUBLER
PB HIGH
RF SW
CAM/LINE
For UK only (SANYO)
For except in germany (FISHER)
Q1018
Q1019
14dB
T2001
BPF
IC1501
CXA1202
REC/PB AMP
PB AMP CH-A
PB AMP CH-B
REC AMP CH-A
REC AMP CH-B
REC MIX
REC Y RF
REC A-FM
REC C RF
VIDEO HEAD CH - A
VIDEO HEAD CH - B
Q2003
2dB
Q2001
MUTE
LINE IN
LINE OUT
CN8501
8P TERMINAL
ALC TC
RF SW
(SERVO)
PB
AUDIO MUTE
CAM/LINE
SP/LP
SYSTEM CONTROL

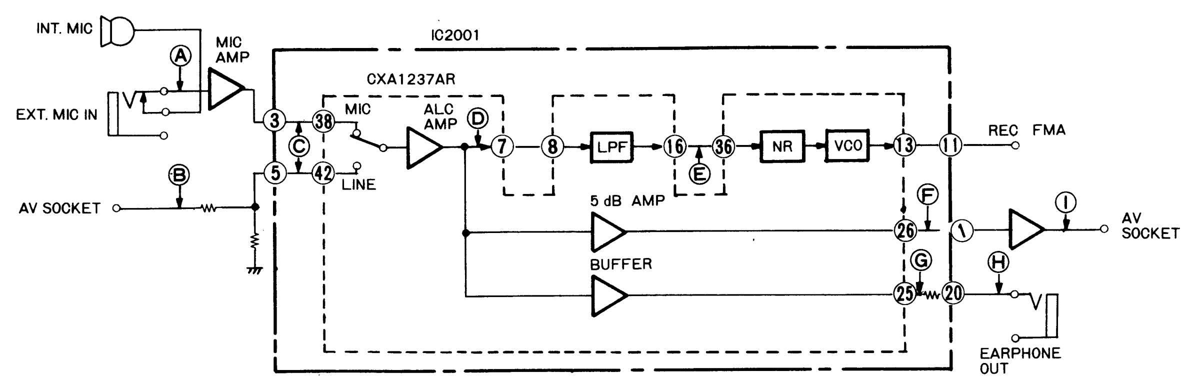
3-4. Audio block diagram


TC-1 BOARD
CA-4 BOARD
VD-1 BOARD
IC2001 CXA1237AR
EP OUT
EARPHONE
MIC
EXT. MIC
AMP
fH TRAP FILTER
Q2103
BUFF
MIC Vcc
LINE OUT
LINE IN
LINE OUT
CN8501
8P TERMINAL
Q2001
MUTE
Q2003
2dB
WEIGHTING FILTER
EMPHASIS 2
EMPHASIS 1
VCA
BUFF
5dB
BUFF
NR DETECTOR
REC
PB
MCA
LIMITER
MUTE
IN L
IN H
L
H
AMP
ALC DETECTOR
ALC TC
SP/LP
FT1
FT2
LP EMPH SWITCH
VCO
REC ON
CAM/LINE
LIMITER
0 CMP
HOLD 1
HOLD 2
LPF
LOOP FILTER
DROP OUT DETECTOR
MUTE DETECTOR
PG DOUBLER
AMP
PB HIGH
RF SW
For UK only (SANYO)
For except in germany (FISHER)
Q1018
Q1019
14dB
T2001
BPF
IC1501
CXA1202
REC/PB AMP
VIDEO HEAD CH - A
VIDEO HEAD CH - B
PB AMP CH-A
PB AMP CH-B
REC AMP CH-A
REC AMP CH-B
REC MIX
REC Y RF
REC A-FM
REC C RF
RF SW
(SERVO)
PB
AUDIO MUTE
CAM/LINE
SP/LP
SYSTEM CONTROL

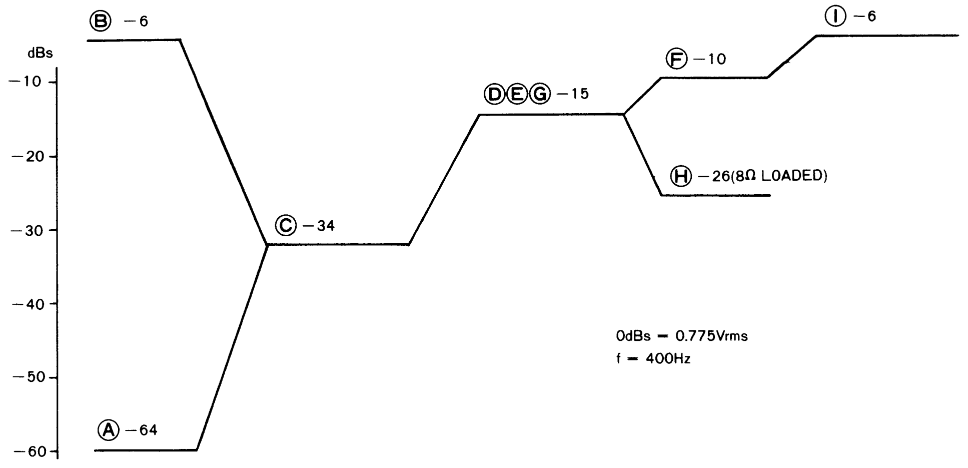


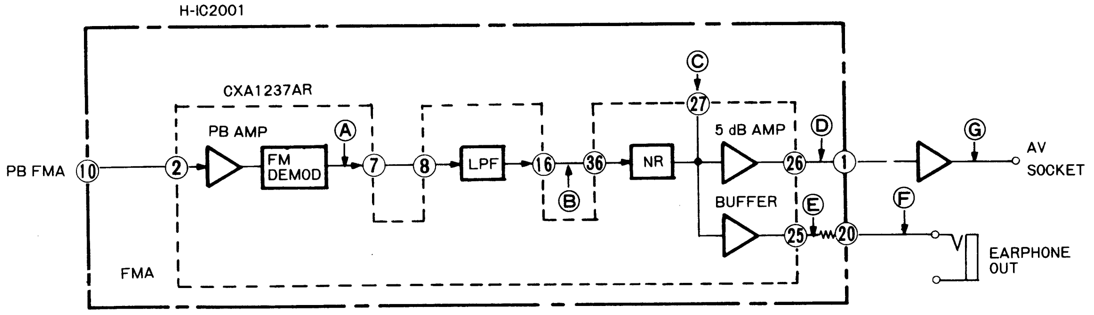
ARD
IC2001 CXA1237AR
LINE IN
LINE OUT
CN8501
8P TERMINAL
Q2001
MUTE
Q2003
2dB
LINE OUT
WEIGHTING FILTER
EMPHASIS 2
EMPHASIS 1
REC
PB
MCA
NR DETECTOR
VCA
BUFF
5dB
BUFF
PB
REC
MUTE
LIMITER
AMP
ALC DETECTOR
ALC TC
IN L
IN H
L
H
FT1
P EMPH SWITCH
FT2
REC
PB
VCO
REC ON
REC
LIMITER
0 CMP
HOLD 1
PB
BUFF
HOLD 2
LPF
BUFF
LOOP FILTER
DROP OUT DETECTOR
MUTE DETECTOR
PG DOUBLER
PB
AMP
LPF
RF SW
PB HIGH
RF SW
(SERVO)
PB
AUDIO MUTE
SYSTEM CONTROL
CAM/LINE
SP/LP
36
35
34
31
30
28
27
26
25
20
38
42
44
46
45
47
23
17
16
13
16
12
14
13
11
2
7
8
9
11
12

3-5. Audio level diagram

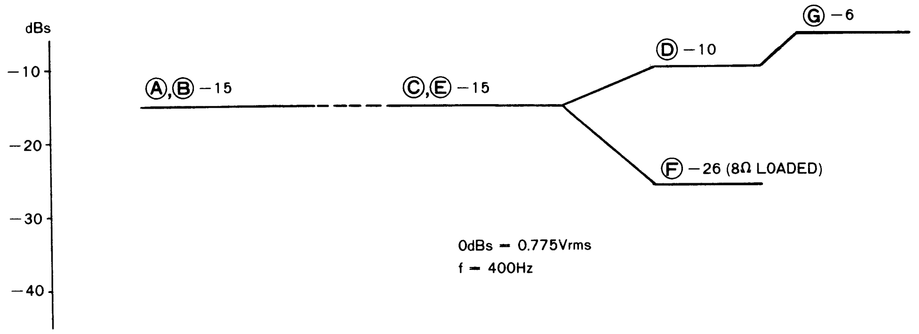


INT. MIC
EXT. MIC IN
AV SOCKET
A
B
MIC AMP
IC2001
CXA1237AR
MIC
LINE
ALC AMP
D
C
E
LPF
NR
VCO
5 dB AMP
BUFFER
F
G
H
I
REC FMA
AV SOCKET
EARPHONE OUT
3
5
38
42
7
8
16
36
13
11
26
25
20
1

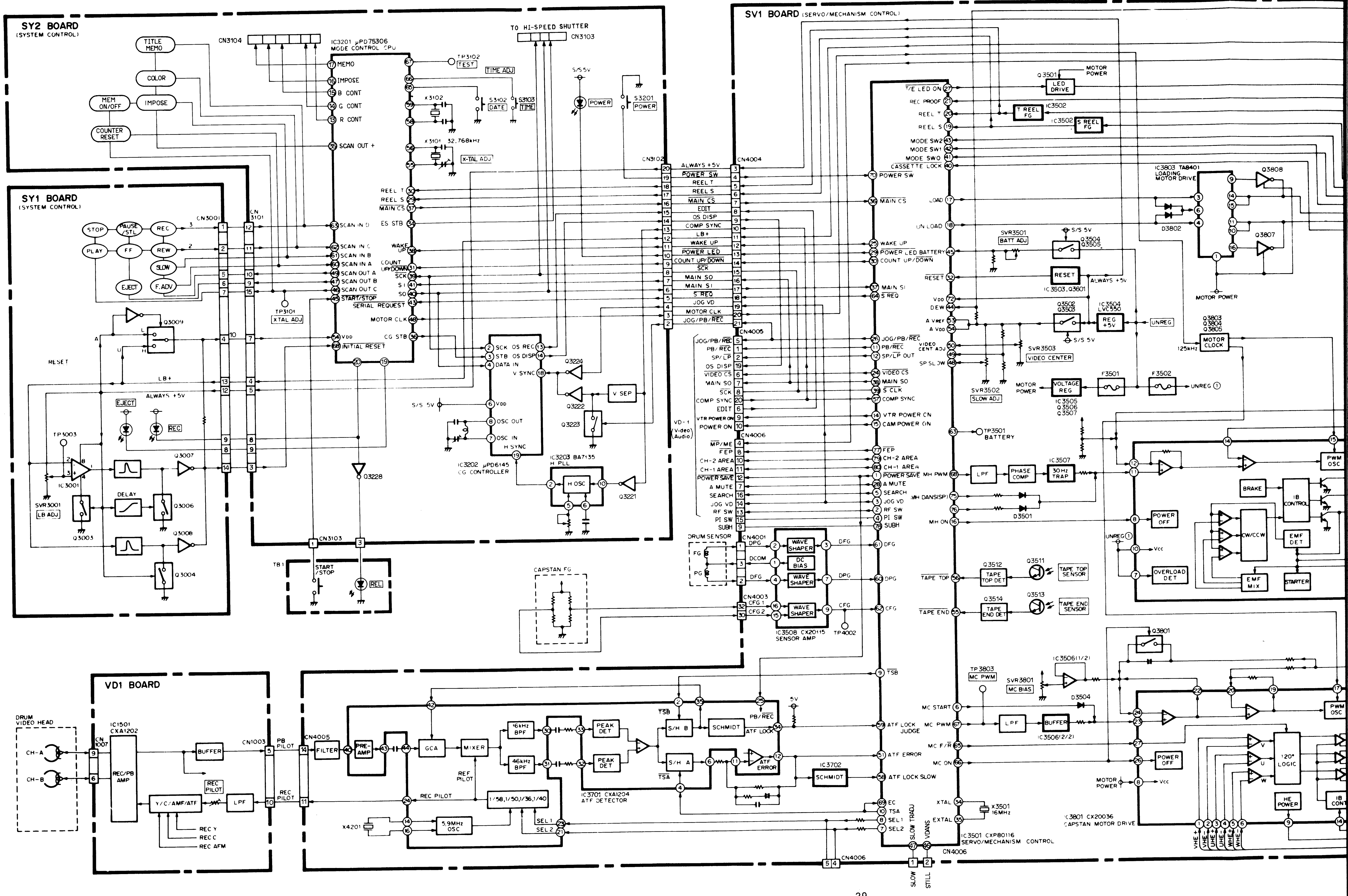


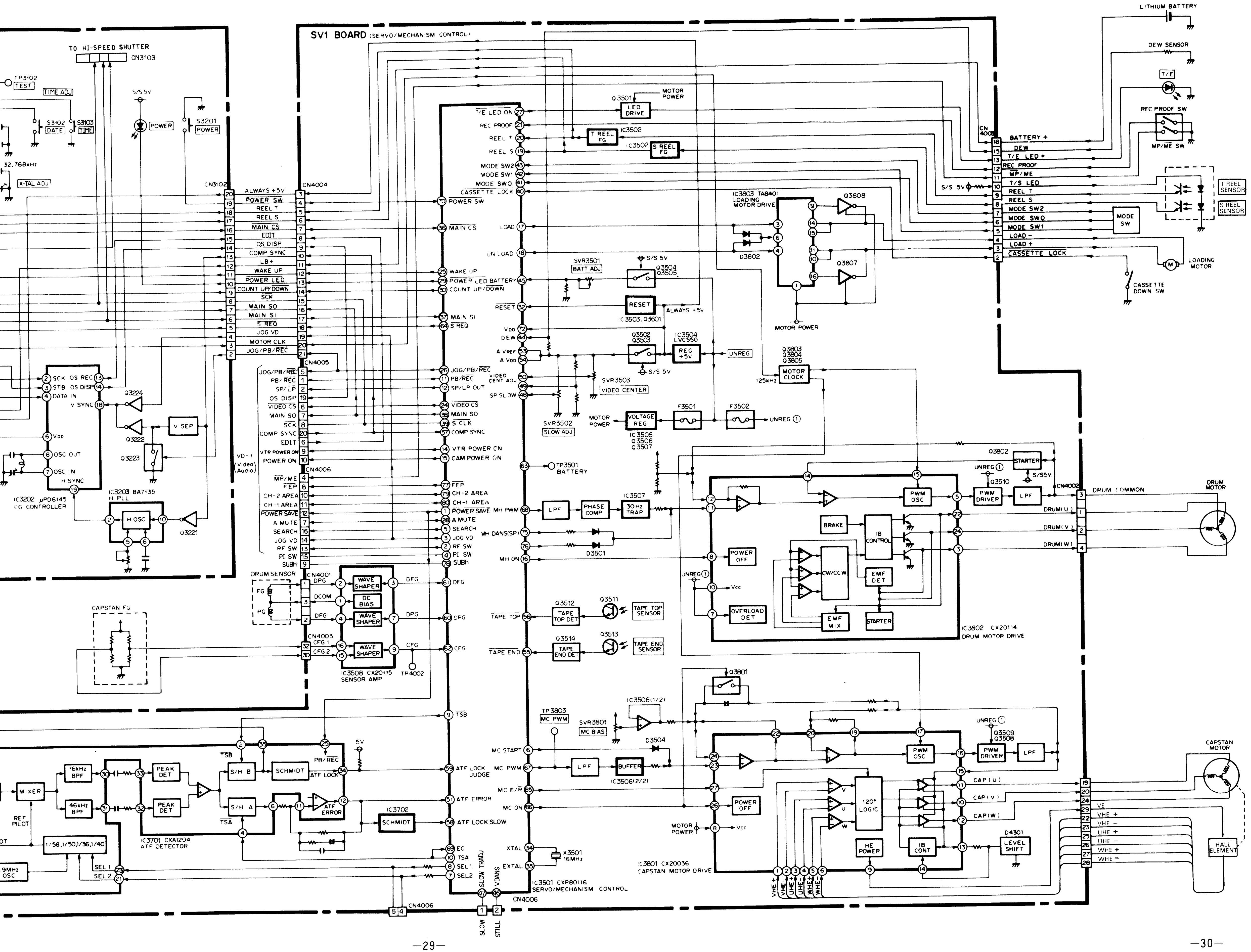


H-IC2001
CXA1237AR
PB AMP
FM DEMOD
LPF
NR
5 dB AMP
BUFFER
PB FMA
FMA
A
B
C
D
E
F
G
AV SOCKET
EARPHONE OUT
10
2
7
8
16
36
27
26
25
1
20

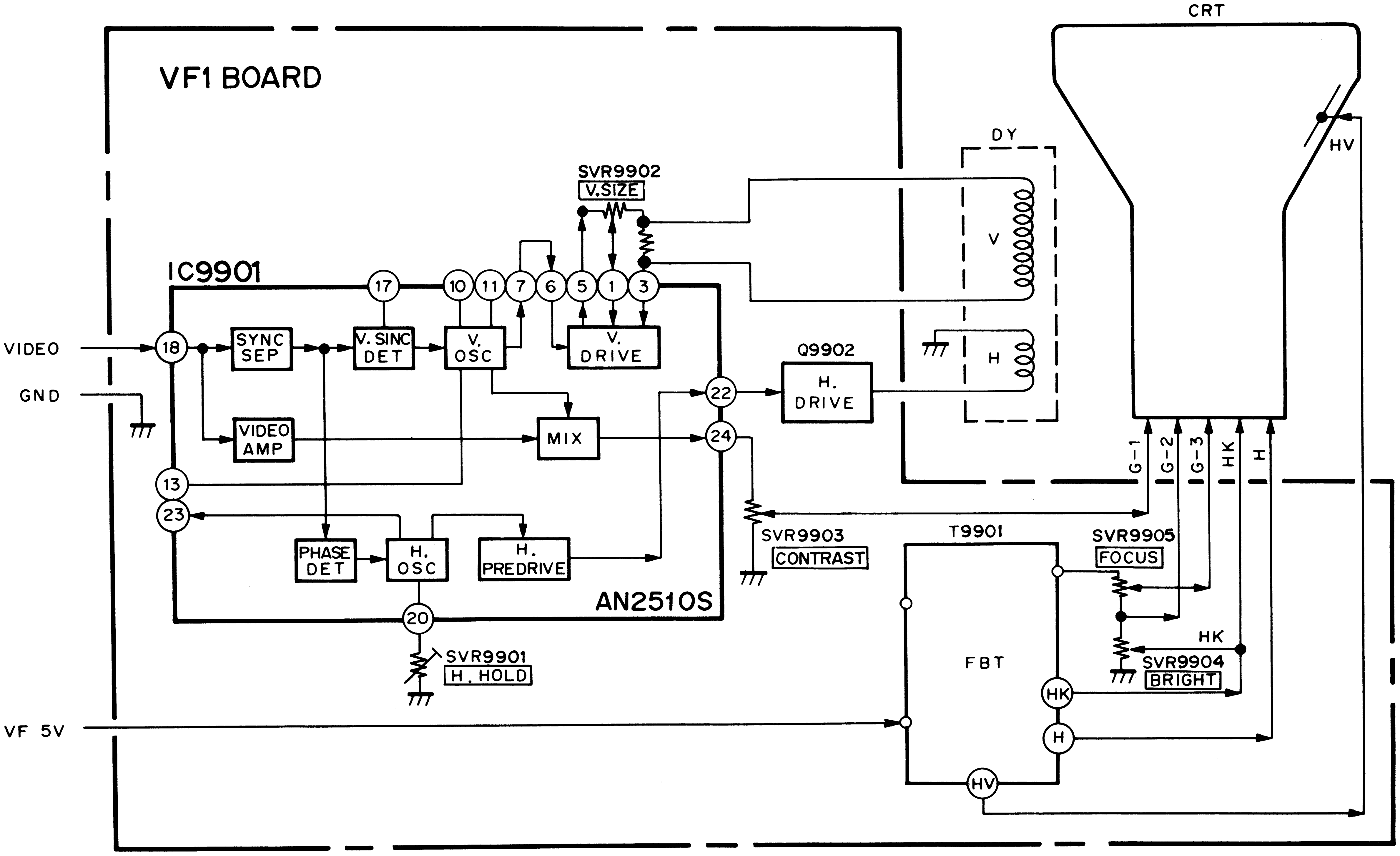


3-6. Servo block diagram/system control diagram


SY2 BOARD
(SYSTEM CONTROL)
TITLE MEMO
COLOR
MEM ON/OFF
IMPOSE
COUNTER RESET
CN3104
IC3201 μPD75306
MODE CONTROL CPU
MEMO
IMPOSE
B CONT
G CONT
R CONT
SCAN OUT +
TP3102
TEST
TIME ADJ
X3102
S3102
DATE
S3103
TIME
X3101 32.768kHz
X-TAL ADJ
TO HI-SPEED SHUTTER
CN3103
S/S 5V
POWER
S3201
POWER
SY1 BOARD
(SYSTEM CONTROL)
STOP
PAUSE /STL
REC
PLAY
FF
REW
SLOW
EJECT
F.ADV
CN3001
CN 3101
SCAN IN D
ES STB
SCAN IN C
SCAN IN B
SCAN IN A
SCAN OUT A
SCAN OUT B
SCAN OUT C
START/STOP
SERIAL REQUEST
MOTOR CLK
CG STB
VDD
INITIAL RESET
REEL T
REEL S
MAIN CS
WAKE UP
COUNT UP/DOWN
SCK
SI
SO
TP3101
XTAL ADJ
Q3009
RESET
LB+
ALWAYS +5V
EJECT
REC
TP3003
IC3001
SVR3001
LB ADJ
Q3003
DELAY
Q3007
Q3006
Q3008
Q3004
Q3228
CN3102
ALWAYS +5V
POWER SW
REEL T
REEL S
MAIN CS
EDIT
OS DISP
COMP SYNC
LB+
WAKE UP
POWER LED
COUNT UP/DOWN
SCK
MAIN SO
MAIN SI
S REQ
JOG VD
MOTOR CLK
JOG/PB/REC
SCK OS REC
STB OS DISP
DATA IN
V SYNC
Q3224
V SEP
Q3222
Q3223
S/S 5V
VDD
OSC OUT
OSC IN
H SYNC
IC3202 μPD6145
CG CONTROLLER
IC3203 BA7135
H PLL
H OSC
Q3221
TB1
CN3103
START /STOP
REL
CAPSTAN FG
CN4004
CN4005
JOG/PB/REC
PB/REC
SP/LP
OS DISP
VIDEO CS
MAIN SO
SCK
COMP SYNC
EDIT
VTR POWER ON
POWER ON
VD-1 (Video) (Audio)
CN4006
MP/ME
FEP
CH-2 AREA
CH-1 AREA
POWER SAVE
A MUTE
SEARCH
JOG VD
RF SW
PI SW
SUBH
DRUM SENSOR
FG
PG
CN4001
DPG
DCOM
DFG
WAVE SHAPER
DC BIAS
CN4003
CFG 1
CFG 2
IC3508 CX20115
SENSOR AMP
TP4002
DFG
DPG
CFG
SV1 BOARD (SERVO/MECHANISM CONTROL)
Q3501
LED DRIVE
MOTOR POWER
T/E LED ON
REC PROOF
REEL T
REEL S
T REEL FG
IC3502
S REEL FG
MODE SW2
MODE SW1
MODE SW0
CASSETTE LOCK
POWER SW
MAIN CS
LOAD
UN LOAD
WAKE UP
POWER LED BATTERY
COUNT UP/DOWN
RESET
MAIN SI
S REQ
VDD
DEW
A VREF
A VDD
VIDEO CENT ADJ
SP SLOW
JOG/PB/REC
PB/REC
SP/LP OUT
VIDEO CS
MAIN SO
S CLK
COMP SYNC
VTR POWER ON
CAM POWER ON
TP3501
BATTERY
FEP
CH-2 AREA
CH-1 AREA
POWER SAVE
A MUTE
SEARCH
JOG VD
RF SW
PI SW
SUBH
MH PWM
MH DANS(SP)
MH ON
DFG
DPG
CFG
IC3803 TA8401
LOADING MOTOR DRIVE
Q3808
Q3807
D3802
MOTOR POWER
SVR3501
BATT ADJ
S/S 5V
Q3504
Q3505
RESET
IC3503,Q3601
ALWAYS +5V
Q3502
Q3503
IC3504
LVC550
REG +5V
UNREG
S/S 5V
SVR3503
VIDEO CENTER
SVR3502
SLOW ADJ
MOTOR POWER
VOLTAGE REG
IC3505
Q3506
Q3507
F3501
F3502
UNREG ①
Q3803
Q3804
Q3805
MOTOR CLOCK
125kHz
LPF
PHASE COMP
IC3507
30Hz TRAP
D3501
PWM OSC
BRAKE
IB CONTROL
CW/CCW
EMF DET
POWER OFF
UNREG①
Vcc
OVERLOAD DET
EMF MIX
STARTER
Q3512
TAPE TOP DET
Q3511
TAPE TOP SENSOR
TAPE TOP
Q3514
TAPE END DET
Q3513
TAPE END SENSOR
TAPE END
Q3801
IC3506(1/2)
TP3803
MC PWM
SVR3801
MC BIAS
D3504
MC START
MC PWM
BUFFER
IC3506(2/2)
MC F/R
MC ON
POWER OFF
MOTOR POWER
Vcc
120° LOGIC
HE POWER
IB CONT
XTAL
X3501
16MHz
EXTAL
IC3801 CX20036
CAPSTAN MOTOR DRIVE
VHE+
VHE-
UHE+
UHE-
WHE+
WHE-
IC3501 CXP80116
SERVO/MECHANISM CONTROL
CN4006
SLOW TRADJ
VDANS
SLOW
STILL
TSB
ATF LOCK JUDGE
ATF ERROR
ATF LOCK SLOW
EC
TSA
SEL 1
SEL 2
VD1 BOARD
DRUM VIDEO HEAD
CH-A
CH-B
CN 1007
IC1501
CXA1202
REC/PB AMP
BUFFER
CN1003
PB PILOT
Y/C/AMF/ATF
REC PILOT
LPF
REC Y
REC C
REC AFM
REC PILOT
CN4005
FILTER
PRE-AMP
GCA
MIXER
REF PILOT
16kHz BPF
46kHz BPF
PEAK DET
S/H B
S/H A
SCHMIDT
ATF LOCK
PB/REC
ATF ERROR
5V
TSB
TSA
IC3702
SCHMIDT
REC PILOT
1/58,1/50,1/36,1/40
X4201
5.9MHz OSC
SEL 1
SEL 2
IC3701 CXA1204
ATF DETECTOR
CN4006


SV1 BOARD (SERVO/MECHANISM CONTROL)
TO HI-SPEED SHUTTER
CN3103
TP3102
TEST
TIME ADJ
S3102 DATE
S3103 TIME
S/S 5V
POWER
S3201 POWER
32.768kHz
X-TAL ADJ
CN3102
CN4004
ALWAYS +5V
POWER SW
REEL T
REEL S
MAIN CS
EDIT
OS DISP
COMP SYNC
LB+
WAKE UP
POWER LED
COUNT UP/DOWN
SCK
MAIN SO
MAIN SI
S REQ
JOG VD
MOTOR CLK
JOG/PB/REC
CN4005
PB/REC
SP/LP
VIDEO CS
VTR POWER ON
POWER ON
CN4006
MP/ME
FEP
CH-2 AREA
CH-1 AREA
POWER SAVE
A MUTE
SEARCH
RF SW
PI SW
SUBH
VD-1 (Video) (Audio)
SCK OS REC
STB OS DISP
DATA IN
V SYNC
VDD
OSC OUT
OSC IN
H SYNC
IC3202 μPD6145 CG CONTROLLER
Q3224
Q3222
Q3223
V SEP
IC3203 BA7135 H PLL
H OSC
Q3221
DRUM SENSOR
CN4001
DPG
DCOM
DFG
FG
PG
WAVE SHAPER
DC BIAS
CAPSTAN FG
CN4003
CFG 1
CFG 2
IC3508 CX20115 SENSOR AMP
TP4002
T/E LED ON
REC PROOF
REEL T
REEL S
MODE SW2
MODE SW1
MODE SWO
CASSETTE LOCK
LOAD
UN LOAD
RESET
VDD
DEW
A VREF
A VDD
VIDEO CENT ADJ
SP SLOW
Q3501 LED DRIVE
MOTOR POWER
IC3502 T REEL FG
IC3502 S REEL FG
SVR3501 BATT ADJ
Q3504 Q3505
RESET
ALWAYS +5V
IC3503, Q3601
Q3502 Q3503
IC3504 LVC550
REG +5V
UNREG
SVR3503 VIDEO CENTER
SVR3502 SLOW ADJ
VOLTAGE REG
IC3505 Q3506 Q3507
F3501
F3502
UNREG ①
IC3803 TA8401 LOADING MOTOR DRIVE
Q3808
Q3807
D3802
MOTOR POWER
Q3803 Q3804 Q3805 MOTOR CLOCK
125kHz
TP3501 BATTERY
MH PWM
LPF
PHASE COMP
IC3507 30Hz TRAP
MH DANSISP
D3501
MH ON
TAPE TOP
Q3512 TAPE TOP DET
Q3511 TAPE TOP SENSOR
TAPE END
Q3514 TAPE END DET
Q3513 TAPE END SENSOR
TSB
MC START
MC PWM
MC F/R
MC ON
XTAL
EXTAL
X3501 16MHz
IC3501 CXP80116 SERVO/MECHANISM CONTROL
TP3803 MC PWM
SVR3801 MC BIAS
IC3506(1/2)
D3504
BUFFER
IC3506(2/2)
Q3801
ATF LOCK JUDGE
ATF ERROR
ATF LOCK SLOW
EC
TSA
SEL1
SEL2
SLOW TRADJ
VDANS
SLOW
STILL
MIXER
16kHz BPF
46kHz BPF
PEAK DET
S/H B
S/H A
SCHMIDT
ATF LOCK
ATF ERROR
PB/REC
IC3702 SCHMIDT
IC3701 CXA1204 ATF DETECTOR
REF PILOT
1/58,1/50,1/36,1/40
9MHz OSC
SEL 1
SEL 2
LITHIUM BATTERY
DEW SENSOR
T/E
REC PROOF SW
MP/ME SW
CN4005
BATTERY +
DEW
T/E LED +
REC PROOF
MP/ME
T/S LED
REEL T
REEL S
MODE SW2
MODE SWO
MODE SW1
LOAD -
LOAD +
CASSETTE LOCK
S/S 5V
T REEL SENSOR
S REEL SENSOR
MODE SW
LOADING MOTOR
CASSETTE DOWN SW
Q3802 STARTER
UNREG ①
Q3510
S/S5V
PWM OSC
PWM DRIVER
CN4002
DRUM COMMON
DRUM(U)
DRUM(V)
DRUM(W)
DRUM MOTOR
BRAKE
IB CONTROL
CW/CCW
EMF DET
EMF MIX
STARTER
POWER OFF
OVERLOAD DET
Vcc
IC3802 CX20114 DRUM MOTOR DRIVE
Q3509 Q3508
CAP(U)
CAP(V)
CAP(W)
CAPSTAN MOTOR
VE
VHE +
VHE -
UHE +
UHE -
WHE +
WHE -
HALL ELEMENT
120° LOGIC
HE POWER
IB CONT
D4301 LEVEL SHIFT
MOTOR POWER
IC3801 CX20036 CAPSTAN MOTOR DRIVE
VHE+ VHE- UHE+ UHE- WHE+ WHE-

3-7. Viewfinder block diagram


CRT
VF1 BOARD
DY
HV
SVR9902
V.SIZE
V
IC9901
17
10
11
7
6
5
1
3
VIDEO
18
SYNC SEP
V. SINC DET
V. OSC
V. DRIVE
H
GND
Q9902
H. DRIVE
22
24
VIDEO AMP
MIX
13
23
G-1
G-2
G-3
HK
H
SVR9903
CONTRAST
T9901
SVR9905
FOCUS
PHASE DET
H. OSC
H. PREDRIVE
AN2510S
20
SVR9901
H. HOLD
FBT
HK
SVR9904
BRIGHT
HK
VF 5V
H
HV

MEMO

4. ADJUSTMENT

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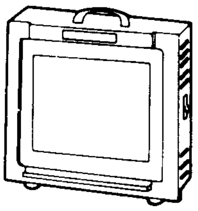
1. CAMERA ADJUSTMENT

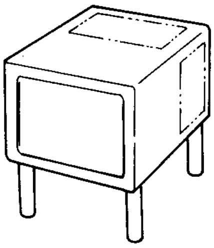
1-1. List of servicing jigs

Ref. No	Name	Part Code	Use
J−1	Color viewer 5100°K	VJ8−0007	Overall
J−2	Halogen viewer 3100°K	VJ8−0019	White balance adjustment
J−3	Gray scale	VJ8−0010	Iris level adjustment, AGC level adjustment, Y.WC level adjustment
J−4	Color bar chart	VJ8−0009	Matrix gain adjustment, Color tone adjustment
J−5	Camera extension FPC	VJ8−0036	Overall
J−6	Camera extension cord	VJ8−0037	
J−7	Camera extension cord	VJ8−0038	
J−8	PCB extension cord	VJ8−0039	
J−9	PCB extention cord	VJ8−0040	
J−10	PCB extention cord	VJ8−0041	
J−11	Socket extractor jig	VJ8−0030	For extracting socket

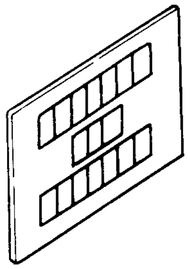
J−1



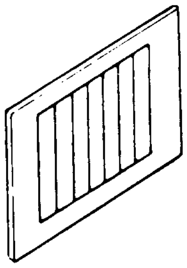
J−2



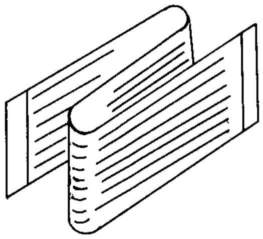
J−3



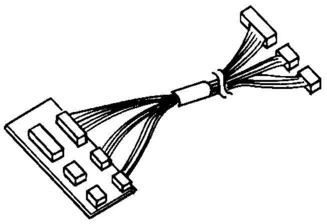
J−4



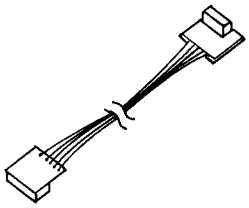
J−5



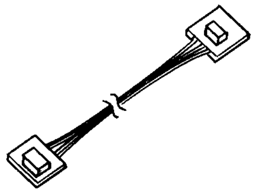
J−6



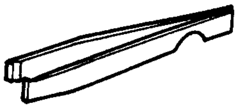
J−7



J−8,9,10



J−11



1-2. Equipment used

1. Vectorscope (TEKTRONIX. INC No. 520A)
2. Oscilloscope
3. Color monitor TV
4. Digital voltmeter
5. RF adaptor (supplied to this unit)

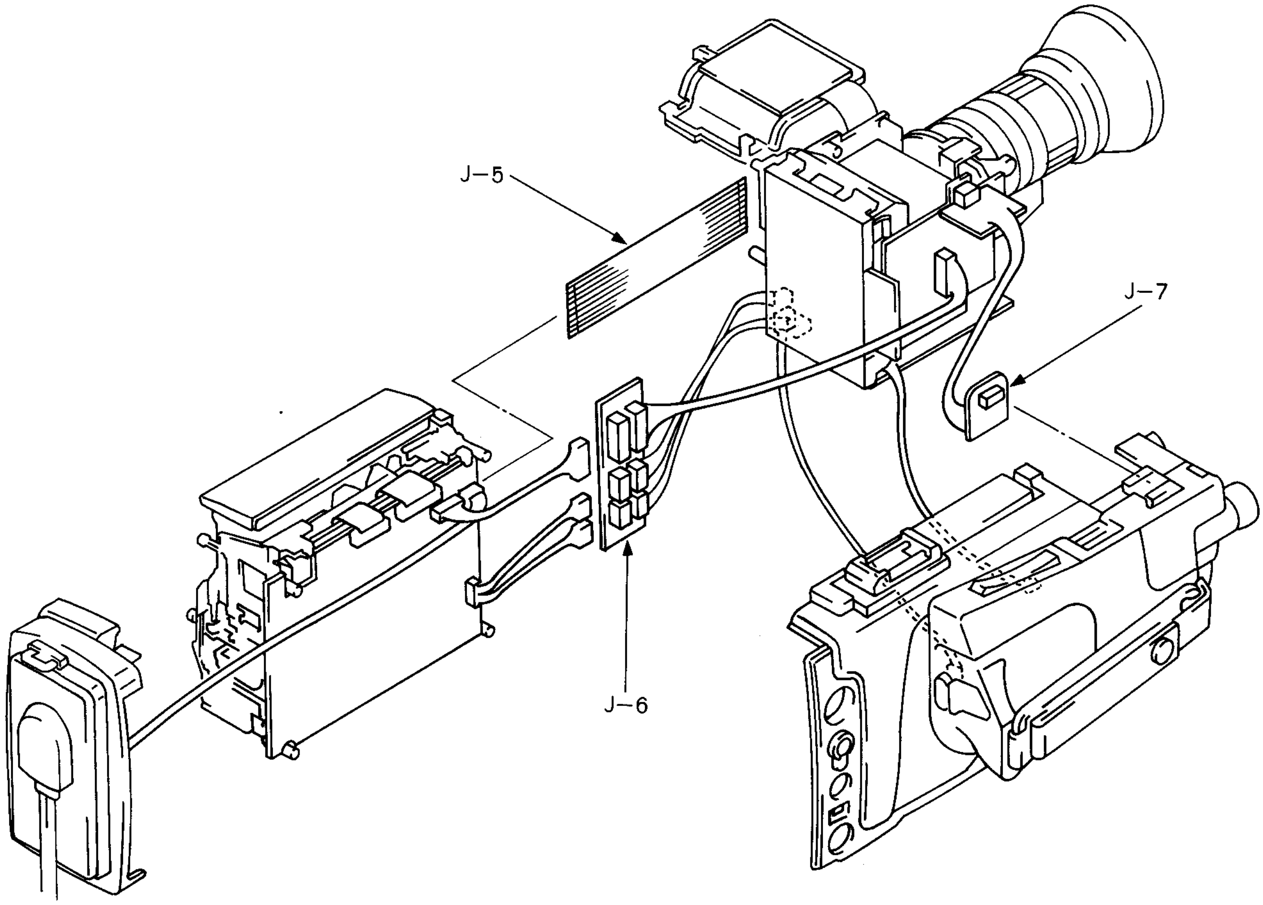
1-3. Adjustment order

1. Flange back adjustment
2. Iris level adjustment
3. AGC level adjustment
4. Burst level adjustment
5. Y.WC level adjustment
6. Chroma Balance adjustment
7. White balance adjustment
8. Digital memory adjustment
9. Digital memory inspection

1-4. Set-up and connection diagram

Refer to "2. DISASSEMBLY" to remove the cabinets and P. C. Boards.

Fig. 1-1 and 1-2 show the connection diagrams using each extension cord.



Note : This illustration is type of Fisher.

Fig. 1-1

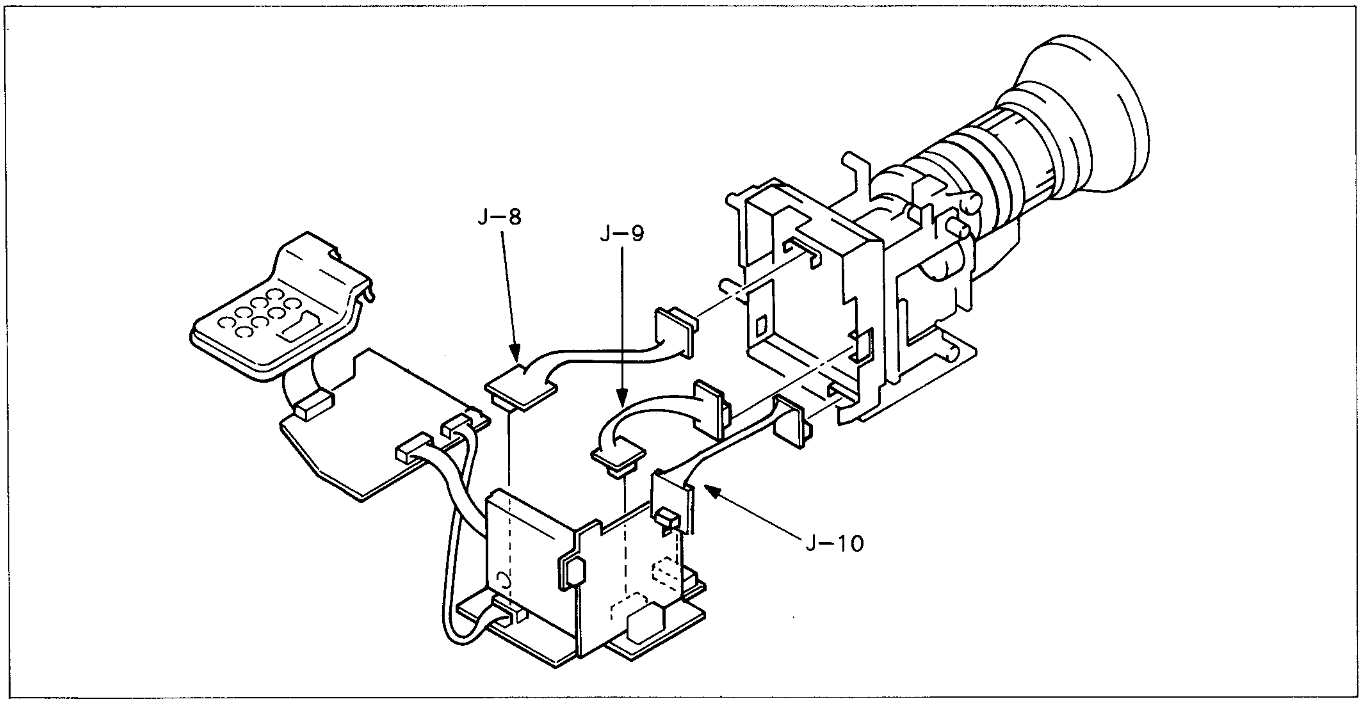
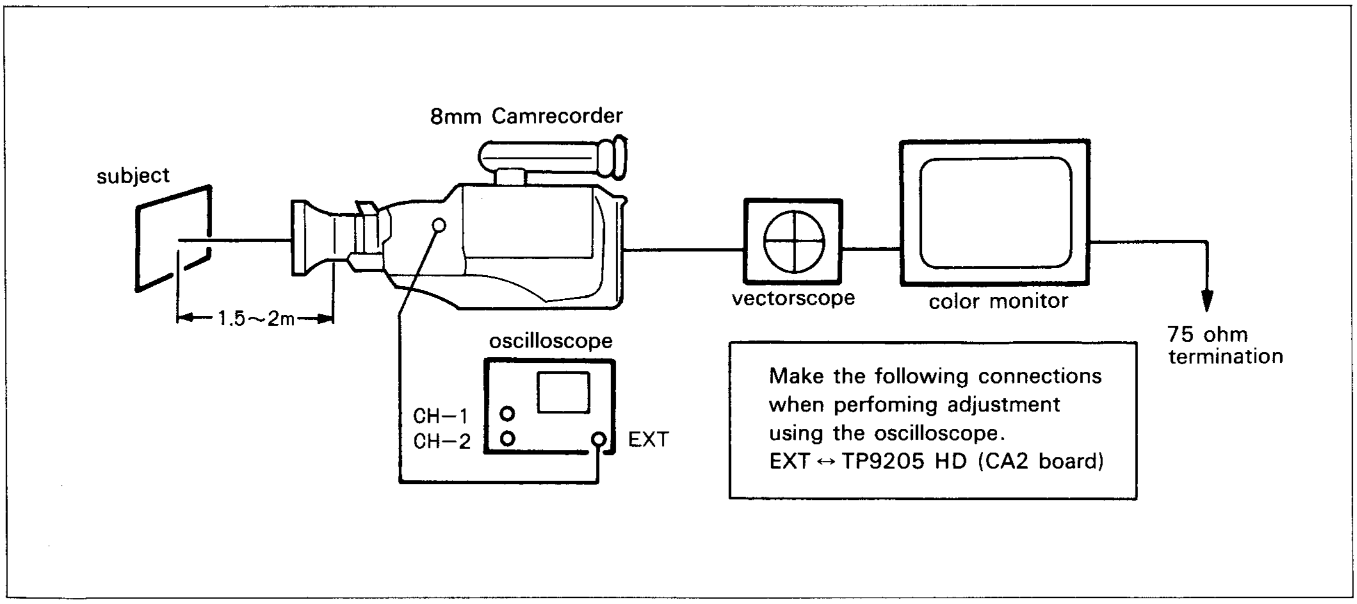


Fig.1-2

Connection of equipment


8mm Camrecorder
subject
1.5~2m
vectorscope
color monitor
75 ohm termination
oscilloscope
CH–1
CH–2
EXT

Make the following connections when perfoming adjustment using the oscilloscope.
EXT ↔ TP9205 HD (CA2 board)

Fig.1-3

1-5. Standard settings before adjustment

① Record the color viewer 5100°K(1.5m~2m).
② Connect TP9301 of CA3 board to GND.
③ Connect the camera block and the deck. (Use the extension cord.)
④ Set the Focus SW to Manual.
⑤ Set the white balance SW to. ✱
⑥ Set the picture frame as in Fig.1-4.

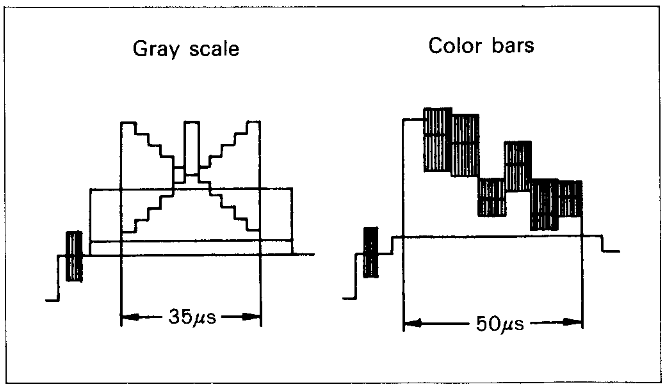

Gray scale
Color bars
35μs
50μs

Fig.1-4

1-6. Flange back adjustment

Measurement Equipment : Siemens star
L wrench
⊖ driver

Adjustment Method :

1) Project the Siemens star at the position 2 meters from the camera face of the lens(approx. 14cm from the hood) and align the center of the monitor screen and the center of the Siemens star.
2) Confirm that the zoom lever moves to both extremes of WIDE and TELE and set the focus to approx. 20; f≒20. (In this case, confirm that the zooming is functioning on the monitor screen.)
3) Set the focus ring indicator of the lens to the middle of 2.
4) Loosen the hexagonal socket screw with L wrench.
5) Turn the adjusting screw using the ⊖ screwdriver (Refer to Fig.1-5.)

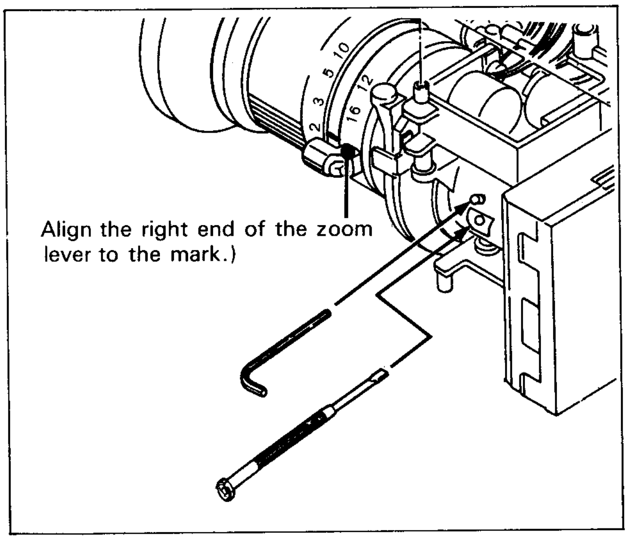


Fig.1-5

6) Turn the flange back adjustment screw of the camera to the right and left 2~3 turns by watching the monitor screen and make adjustment so that the wedge in the center of the Siemens star becomes the clearest.
7) Fasten the hexagonal socket screw with L wrench by holding the flange back adjustment pin with ⊖ driver so that the pin shall not move.
8) Turn the zoom lever to TELE extreme and turn the focus ring. In this case, the position where the wedge becomes the clearest should be in the range of character "2".

   1.5 2 3 (m)
   →| |←

9) Turn the zoom lever to WIDE and turn the focus ring. In this case, the position where the wedge becomes the clearest should be in the range shown in the following Fig.

   1.5 2 3 (m)
   |←——→|

10) Fasten the hexagonal socket screw by holding the flange back adjustment pin (with ⊖ driver) so that it shall not move.

1-7. V. SUB voltage adjustment

Measurement Equipment : Digital voltmeter
Measurement Point : TP9202 V.SUB (CA2)
Adjustment Method : Adjust to the values indicated on the upper face of the shield case for CA1 board or the side of CCD.
Indication Method : Indication shall be made in 2 digits using 0.1 ··· 9, A, B ··· L.
A : 10
B : 11
⋮
L : 21
e.g. F2=15.2V
KO=20.0V
Adjustment VR : SVR 9101 V.SUB (CA 1)

1-8. Iris level adjustment

Setting : Standard setting shown in 1-5.
Subject : gray scale
Measurement Equipment : Oscilloscope
Measurement Point : TP9207 IRIS. OUT (CA2)
Adjustment Value : 300mVp-p±20mVp-p
Adjustment VR : SVR 9301 (CA3)

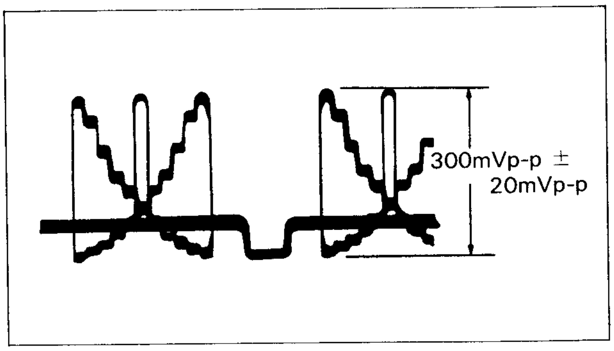


Fig.1-6

1-9. AGC level adjustment

Setting : Standard setting shown in 1-5.
Subject : gray scale
Measurement Equipment : Oscilloscope
Measurement Point : TP9202 YE (CA2)
Adjustment Value : 450mVp-p±20mVp-p
Adjustment VR: SVR 9204 AGC. SET (CA2)

Adjustment diagram is the same as Fig.1-6.

1-10. Burst level adjustment

Setting : Standard setting shown in 1-5.
Measurement Equipment : Vectorscope (oscilloscope)
Measurement Point : video output
Adjustment Value : 75% of the burst level
(300 mV ± 10 mV)
Adjustment VR : SVR 9220 BURST (CA2)

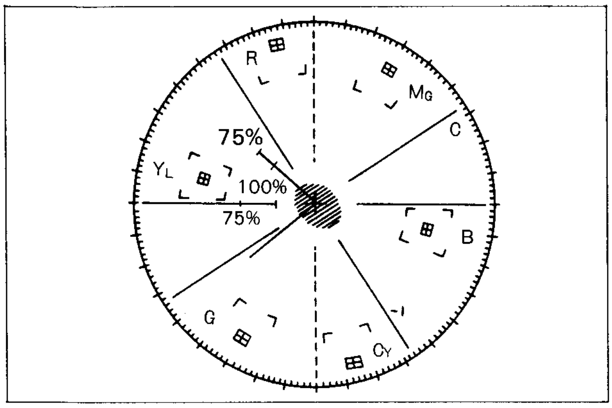


Fig.1-7

1-11. Y, WC level adjustment

Setting : Standard setting shown in 1-5.
Measurement Equipment : Vectorscope
Measurement Point : video output
Adjustment Value : 115%, 100%
Adjustment VR : SVR 9218 Y LEVEL (CA 2)
SVR 9216 WC (CA 2)
Adjustment Method :

1) Adjust with SVR9218 so that Y output is maximum.
2) Adjust with SVR9216 so that Y output is 115% (Refer to Fig.1-8. a)
3) Adjust with SVR9218 so that Y output is 100% (Refer to Fig.1-8. b)

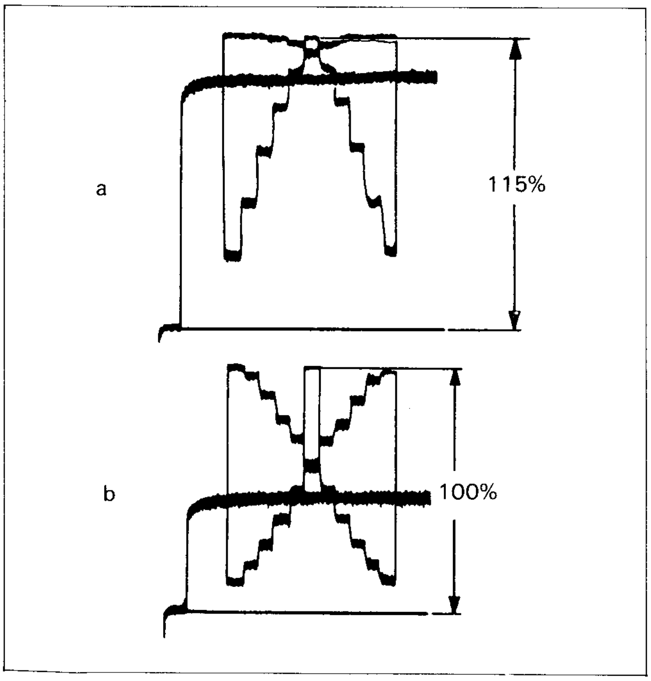


Fig-1-8

1-12. Chroma adjustment

(1) Matrix adjustment

Setting :

1) Connect TP9201 OS to GND.
2) Set the oscilloscope to in the range of AC50mV.
3) Picture frame of color bar should be 50μsec. (Refer to Fig.1-9.)

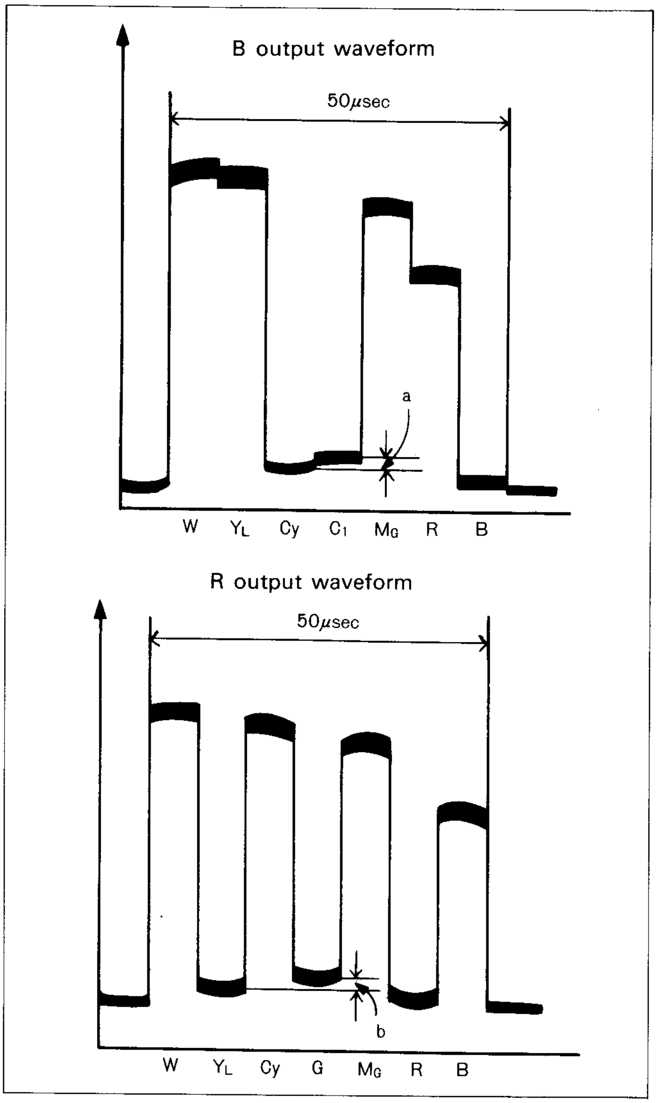


Fig.1-9

Measurement Equipment : Oscilloscope
Measurement Point : TP9203 R-Y (CA2)
TP9204 B-Y (CA2)
Adjustment VR: SVR 9207 MG2, SVR 9208 MG1
Adjustment Method:

1) See the output at TP9203 R-Y with the oscilloscope.
2) Adjust with SVR 9207 MG2 so that the output level difference between cyan(Cy) and green (G) of color bars (a part in Fig.1-9) becomes 0.
3) See the output at TP9204 B-Y with the oscilloscope.
4) Adjust with SVR 9208 MG1 so that the output level difference between yellow(YL) and green (G) of color bars (b part in Fig.1-9) becomes 0.

〔2〕 Color tone adjustment

Setting :

1) Connect TP9201 OS to GND.
2) Picture frame of the color bars should be 50μsec. (Refer to Fig.1-9.)

Measurement Equipment : Vectorscope

Adjustment VR : SVR 9211 B-Y GAIN, SVR 9212 R-Y GAIN
SVR 9213 B-Y HUE, SVR 9214 R-Y HUE

Adjustment Method : Adjust so that the liminance points of R and Y_L comes to the position indicated in Fig.1-10 on the vectorscope.

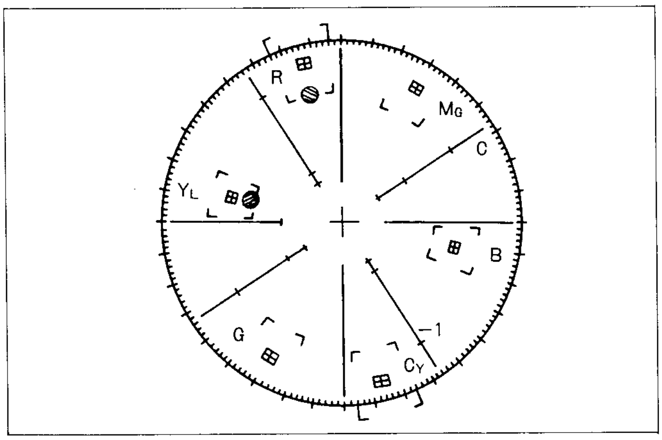


Fig.1-10

1-13. White balance adjustment

〔1〕 Preset, center adjustment

Setting :

1) Set the white balance SW to ☀ side.
2) Have TP 9210 SW open or connected to GND.
3) Adjust so that the burst comes to the end of the scale on the vectorscope.

Measurement Equipment : Vectorscope

Adjustment VR : SVR 9201 WB. OS, SVR 9202 WR. OS

Adjustment Method :

1) Record the 5100°k colorviewer to fill the screen.
2) Adjust with adjustment VR so that the luminance point of the vectorscope comes in the center.
3) Set the white balance SW to 💡 side and confirm that the luminance point of the vectorscope is within 5mm radius from the center.

〔2〕 TTL adjustment

Setting :

1) Set the white balance SW to Auto.
2) Connect TP9210 SW to GND.
3) Adjust so that the burst comes to the end of the scale on the vectorscope.

Measurement Equipment : Vectorscope

Adjustment VR : SVR 9227 TWBB. OS
SVR 9226 TWBR. OS

Adjustment Method :

1) Record the 5100°k colorviewer to fill the screen.
2) Adjust with adjustment VR so that the luminance point of the vectorscope comes to the center.

〔3〕 Sensor adjustment

a) 5100°k adjustment

Setting :

1) Set the white balance sw. to ☀ side.
2) Apply 5V (through 1k ohm resistance) to TP9210 SW.
3) Adjust so that the burst comes to the end of the scale on the vectorscope.
4) Record the viewer so that only light from the viewer enters the sensor.

Measurement Equipment : Vectorscope

Adjustment VR : SVR 9223 WB.BIAS, SVR9224 WR.BIAS

Adjustment Method :

1) Record the 5100°k color viewer to fill the screen.
2) Adjust with the adjustment VR so that the luminance point of the vectorscope comes to the center.

b) 3200°k adjustment

Setting :

1) Set the white balance SW to 💡 side.
2) Apply 5V(through 1k ohm resistance) to TP9210 SW.
3) Adjust so that the burst comes to the end of the scale on the vectorscope.
4) Record the viewer so that only light from the viewer enters the sensor.

Measurement Equipment : Vectorscope

Adjustment VR : SVR 9221 WBG, SVR 9222 WRG

Adjustment Method :

1) Record 3200°k halogen viewer to fill the screen.
2) Adjust with the adjustment VR so that the luminance point of the vectorscope comes to the center.

〔4〕 H.L.I adjustment

Setting :

1) Set the white balance SW to Auto.
2) Connect TP9210 SW to the probe of the oscilloscope.
3) Set the oscilloscope to DC1V range.

Measurement Equipment : Oscilloscope

Adjustment VR : SVR9203 H.L.I.

Adjustment Method :

1) Set the incident light to the sensor to 1500 lux.
2) Adjust so that the output of TP9210 goes from "H"(5V) to "L"(0V).
3) Set the incident light to the sensor to 1050 lux by using ND filter and confirm that the output of TP9210 goes from "L" to "H".

1-14. Digital Memory adjustment

(1) AD threshold adjustment

Setting : Standard setting shown in 1-5.
Subject : All black (Put on the lens cap.)
Measurement Equipment : Digital voltmeter
Measurement Point : IC9402 ② : ⊕probe
IC9402 ③ : ⊖probe
Adjustment Value : 0.35 Vdc±0.01 Vdc
Adjustment VR : SVR 9405 ADTH

(2) REC white balance adjustment

Setting : Standard setting shown in 1-5.
Subject : All black (Put on the lens cap.)
Measurement Equipment :Vectorscope
(gain : maximum)
Measurement Point : Video output
Adjustment VR : SVR 9401 PED
Adjustment Method :

1) Press the TITLE MEMO button and put "all white" to menory.
2) Set the distance between the white vector center and the origin to the minimum with the adjustment VR.

(3) H size adjustment

Setting : Standard setting shown in 1-5.
Subject : All black (Put on the lens cap.)
Measurement Equipment : Oscilloscope
(0.5μsec/div)
Measurement Point : Video output
Adjustment VC : VC 9501 H. SIZE
Adjustment Method :

1) Press the TITLE MEMO button and put "all white" to menory.
2) Set to the 1.6 ± 0.1μs with the adjustment VR..

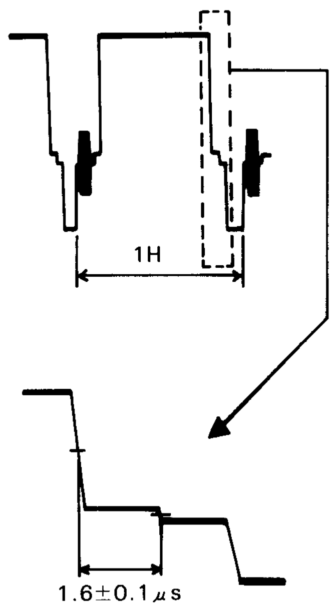


Fig.1-11

(4) Reproduction color tone adjustment

Setting : Standard setting shown in 1-5.
Subject : All black (Put on the lens cap.)
Measurement Equipment : Vectorscope
Measurement Point : Video output
Alignment Tape : For confirming function
(WR4-4CSP), color bars.
Adjustment VR : SVR 9403 CBO, SVR 9404 CB90
SVR 9406 HUE
Adjustment Method :

1) Put "all white" to menory in EE Mode.
2) Reproduce the alignment tape.
3) Turn SVR9403 and SVR9404 and the distance between the white vector center and the origin to the minimum.
4) Press the TITLE COLOR button and impose "all red".
   Turn SVR9406 so that the center of the red vector comes at 104 ± 5° from B-Y axis in +V side.

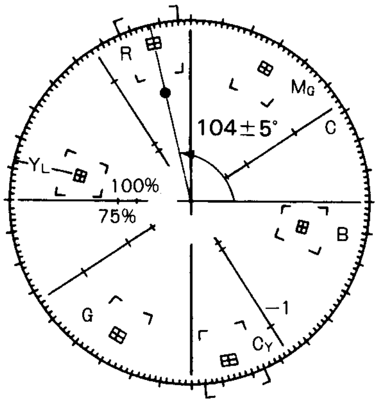


Fig.1-12

1-15. Digital Memory inspection

(Inspection content)

● EE
1. Binary level
2. Inverting function
3. Function of on/off button
4. Horizontal size : 1.6±0.3μsec.
5. Luminance level (black title, white title, data-white)
6. Vector of each title
7. Back-up

● PB
8. Luminance level
9. Vector of each title

(Method)

1. Write a title on white paper and record it to fill the screen. Press the TITLE MEMO button and confirm that the binary level is appropriate.
2. Confirm 3 & 7 according to the Instruction Manual.

4. Put "all white" to menory with the lens cap put on. (Maintain this condition for the following procedure.)
Confirm that the horizontal size at this time is 1.6± 0.3µsec.

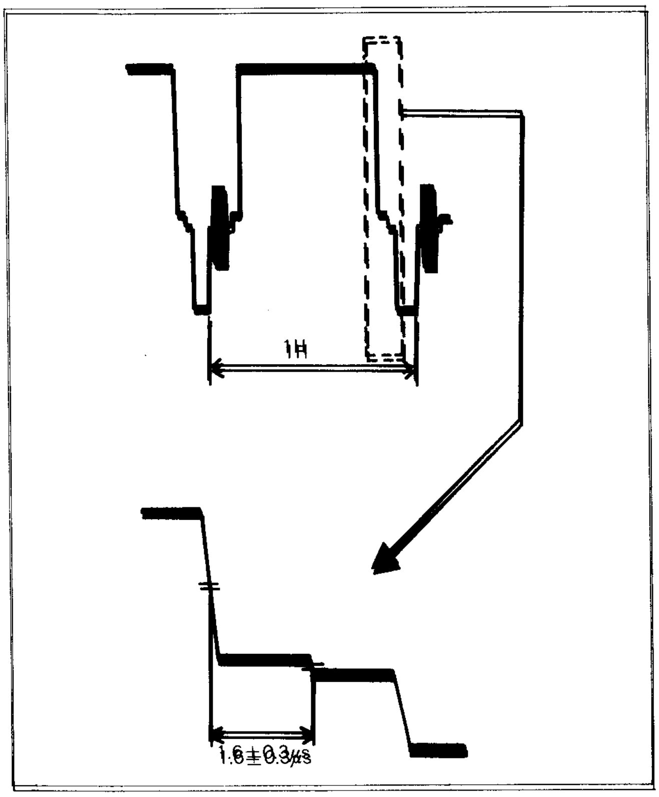


Fig. 1-13

5.
- Confirm that the level of the black title is 0±20 mV from the reference of the pedestal level.
- Confirm that the level of the white title is 560± 20mV from the reference of the pedestal level.
- Confirm that the date level is 70±20mV from the reference of the white title level.

6. Confirm that the center of all blue, all red, all white, all black and all yellow vecters are in the position indicated in Fig.1-14. (+V side)

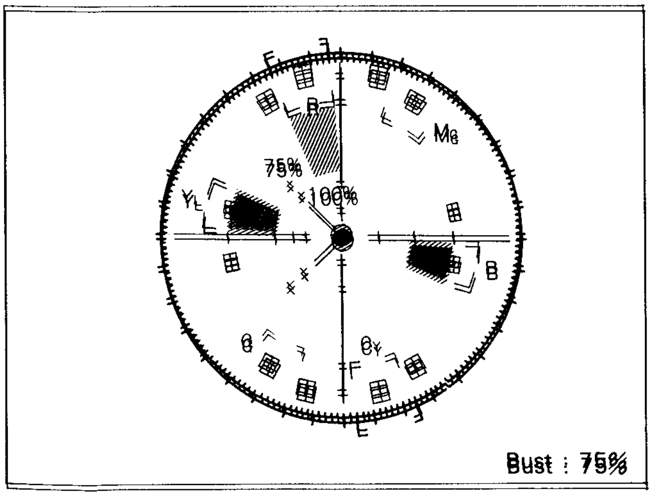


Fig. 1-14.

8.
- Confirm that the level of the black title is 0± 40mV from the reference of the pedestal level.
- Confirm that the level of the white title is 490± 40mV from the reference of the pedestal level.

9. Confirm that the center of all blue, all red, all white, all black and all yellow vectors are in the position indicated in Fig.1-15. (+V side)

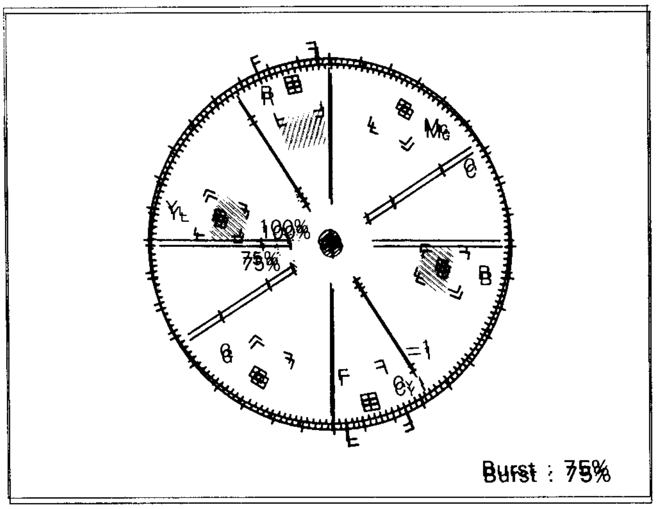


Fig. 1-15.

2. MECHANISM ADJUSTMENT

As to the mechanism adjustment, refer to the Service Manual for VM-D3P (SANYO) or FVC-P701 (FISHER).

3. VIDEO SECTION ADJUSTMENT

〔Equipment Used〕

1) Monitor TV
2) Dual trace oscilloscope, bandwidth of at least 10MHz, equipped with delay mode (10 : 1 probe used unless specified otherwise)
3) Frequency counter
4) Pattern generator with video output jack
   Note : Use pataern generator which allows chroma signal to be switched off.
5) Regulated power supply
6) Alignment tape (jig)
7) MP tape
8) Read wires

〔Alignment Tapes〕

Video Frequency Characteristics (WR5-2C) Part code : 8-967-995-16 or (WR5-6C) Part code : 8-967-995-17
Operation Checking (WR5-5CSP) Part code : 8-967-995-47
Operation Checking (WR5-4CL) Part code : 8-967-955-56

Tape	Contents	Use
Video Frequency Characteristics (WR5-2C)	1. Recording area : Video 2. Recording contents : RF sweep 0 to 10MHz 3. Marker 1, 3.58, 5.5, and 7MHz	Frequency characteristics adjustment
Operation Checking (WR5-4CL)	1. Recording area : Video 2. Recording contents : Color bars, monoscope (LP) Audio signals (FM)	Operation checking
Operation Checking (WR5-5CSP)	1. Recording area : PCM to video 2. Recording contents : Color bars, monoscope (SP) Audio signals (FM), PCM audio signals	Operation checking

〔Jigs〕

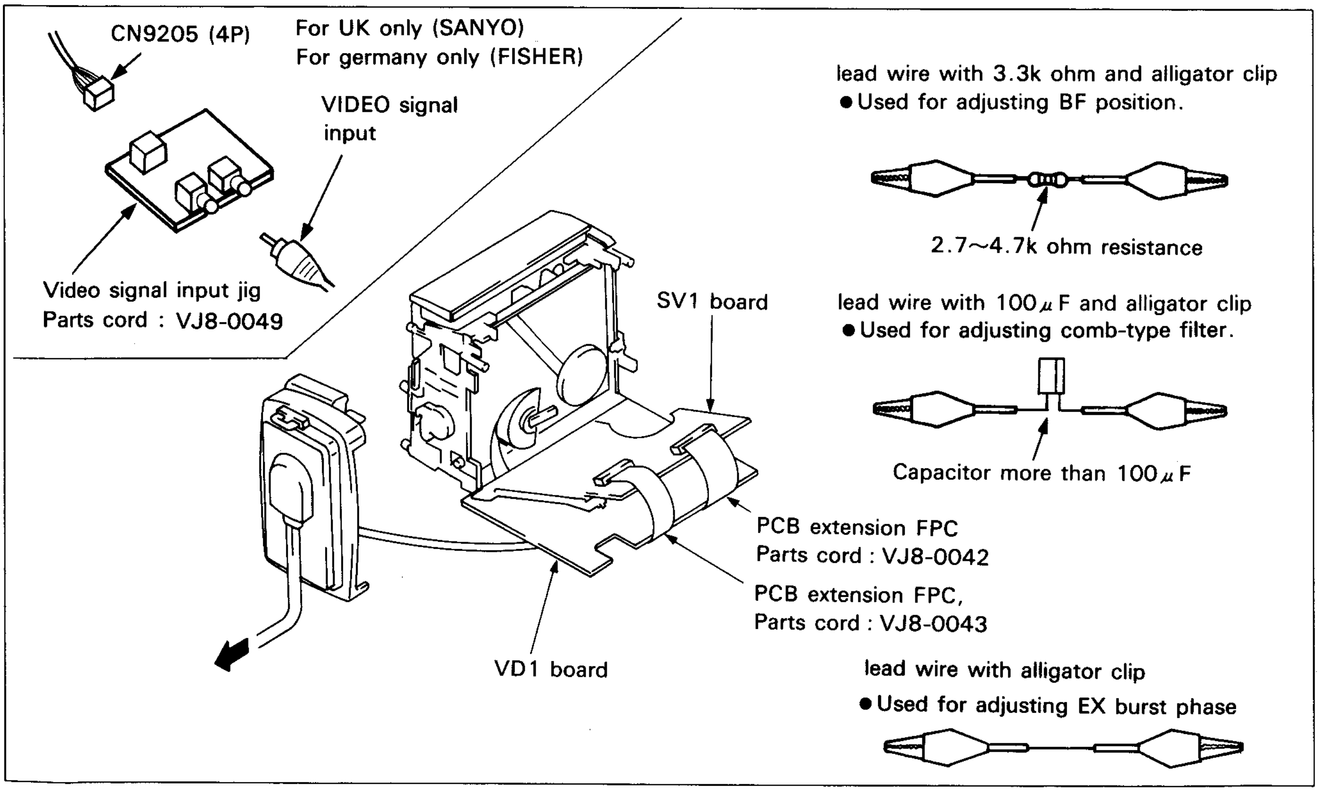
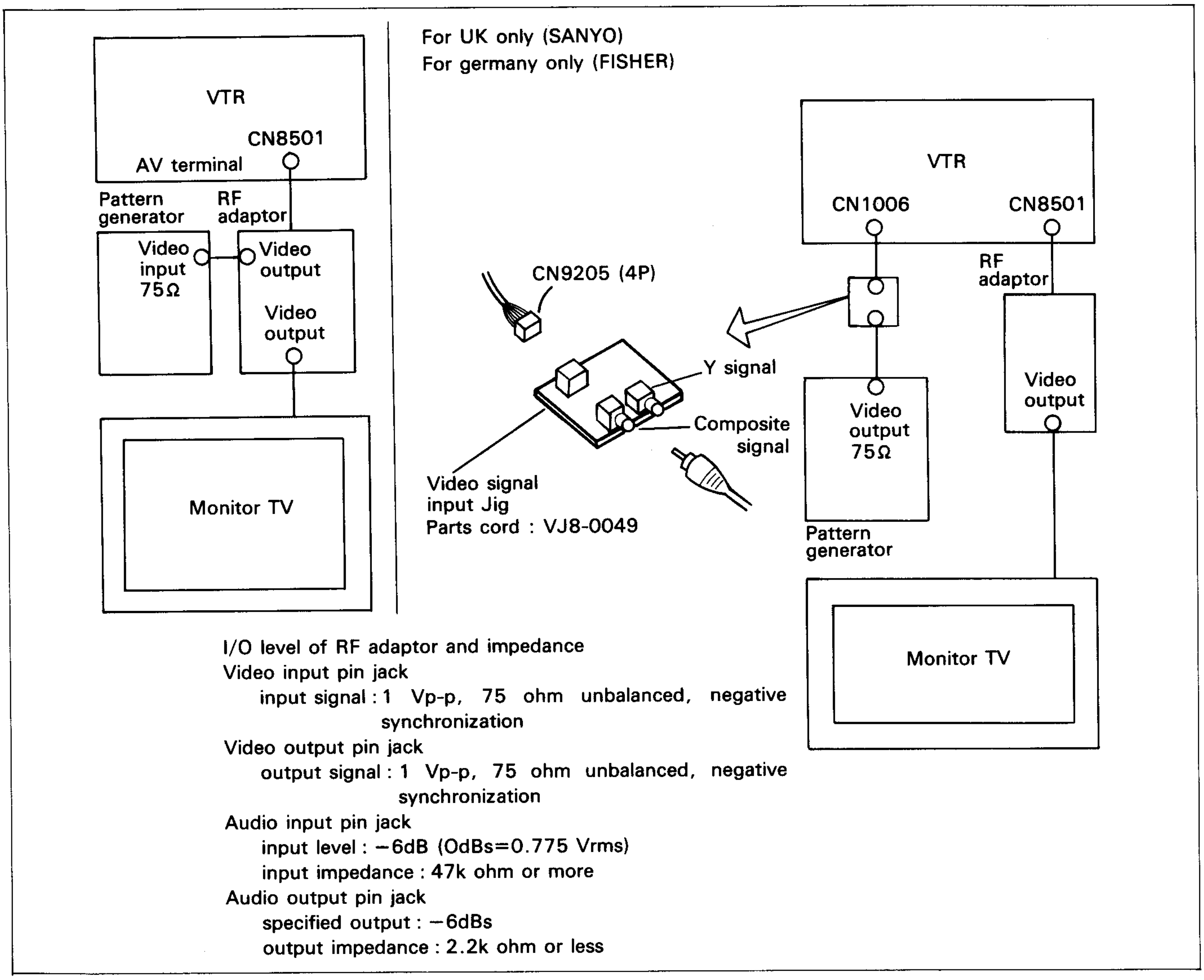

CN9205 (4P)
For UK only (SANYO)
For germany only (FISHER)
VIDEO signal input
Video signal input jig
Parts cord : VJ8-0049
SV1 board
VD1 board
PCB extension FPC
Parts cord : VJ8-0042
PCB extension FPC,
Parts cord : VJ8-0043
lead wire with 3.3k ohm and alligator clip
● Used for adjusting BF position.
2.7~4.7k ohm resistance
lead wire with 100μF and alligator clip
● Used for adjusting comb-type filter.
Capacitor more than 100μF
lead wire with alligator clip
● Used for adjusting EX burst phase

Fig. 3-1.

[Connection of appliances for adjustment


VTR
CN8501
AV terminal
Pattern generator
RF adaptor
Video input 75Ω
Video output
Video output
Monitor TV
For UK only (SANYO)
For germany only (FISHER)
CN9205 (4P)
Y signal
Composite signal
Video signal input Jig
Parts cord : VJ8-0049
VTR
CN1006
CN8501
RF adaptor
Video output 75Ω
Pattern generator
Video output
Monitor TV

I/O level of RF adaptor and impedance

Video input pin jack
  input signal : 1 Vp-p, 75 ohm unbalanced, negative synchronization

Video output pin jack
  output signal : 1 Vp-p, 75 ohm unbalanced, negative synchronization

Audio input pin jack
  input level : −6dB (OdBs=0.775 Vrms)
  input impedance : 47k ohm or more

Audio output pin jack
  specified output : −6dBs
  output impedance : 2.2k ohm or less

Fig.3-2. Connection Diagram

[Setup for Adjustment]

As the video signal obtained from the pattern generator is used as the adjustment signal for adjustment of the VTR section, it is necessary that this video output signal be within the specified range.

Connect the oscilloscope to CN8501 Pin ⑧ (VIDEO IN) on the VD1 board, and confirm that the amplitude of the sync signal of the video signal is approximately 0.3V, the amplitude of the video section is approximately 0.7V, and the amplitude of the burst signal is apprixímately 0.3V and flat. Also confirm that the ratio of the levels of the burst signal and "red" signals is 0.30 : 0.66.

The video signal (color bar) used for adjustment of the VTR section is shown in Fig.3-3.

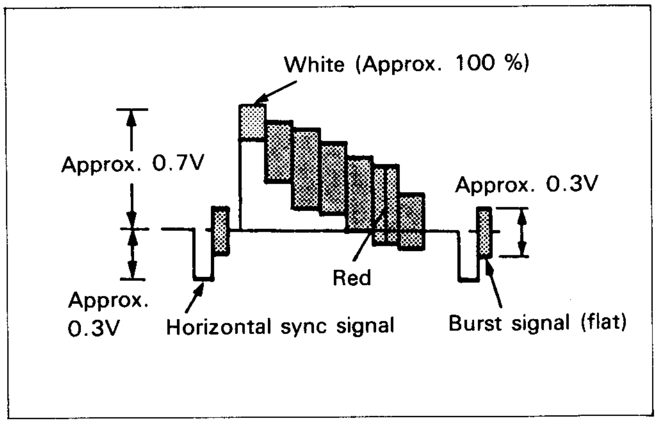

White (Approx. 100 %)
Approx. 0.7V
Approx. 0.3V
Red
Approx. 0.3V
Horizontal sync signal
Burst signal (flat)

Fig.3-3. Color Bar Signal of Pattern Generator

3.1 System control adjustment

3-1-1. Lithium battery voltage drop detection voltage adjustment (SY1 and SY2 Boards)

Digital voltmeter : TP3001 (SY1)
TP3103 (GND/SY2)

Adjusting Method :
Adjust with SVR3001 to 2.70±0.01Vdc.

3-1-2. H sync oscillation frequency adjustment (SY2 and CA2 Boards)

Mode : E-E
Remove CN9206 on the CA2 board.
Frequency Counter : TP3204 (SY2)
TP3203 (GND/SY2)

Adjusting Method :
Adjust with SVR3201 to 15.7±0.1kHz.

3-1-3. On-screen character position adjustment (SY2 and VD1 Boards)

Mode : E-E
Oscilloscope CH1 : TP3204 (SY2/for trigger)
CH2 : TP1002 (VD1/VIDEO OUT)
TP3203 (SY2/GND)

Adjusting Method :

1) Put on the lens cap over the camera lens (all black subject).
2) Press the DATE ON/OFF button (SY2) until the date appears.
3) Rotate CT3112 (SY2) and adjust until the time difference between the falling edge of CH1 and the pulse of CH2 becomes 10.0μ±0.5μsec.

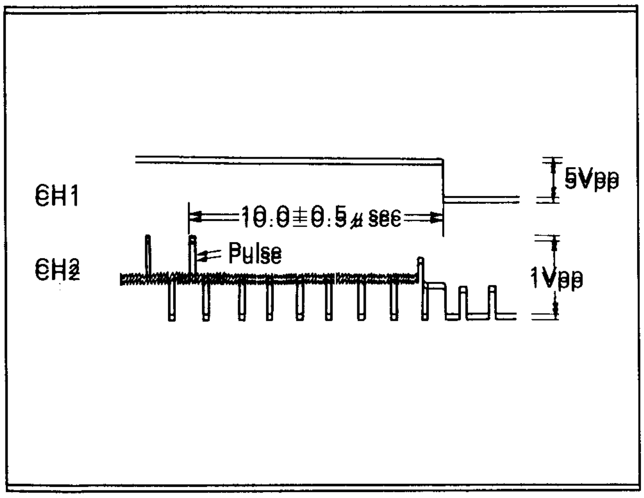


Fig.3-4. On-screen character position adjustment

3-1-4. Crystal oscillation frequency adjustment for clock (SY2 Board)

Frequency counter : TP3201 (SY2)
(Use a frequency counter which is capable of PERIOD measurement and which displays at least 6 digits with time base of 10s)
: TP3203 (GND/SY2)

Adjusting Method :

1) Connect TP3202 and TP3203 on the SY2 board using a jumper wire.
2) Hold down the DATE ON/OFF button (SY2) for at least 2 seconds.
3) Adjust with CT3201 (SY2) to 488.281±0.002μ sec.

3-1-5. Battery failure adjustment (SV1 Board)

Make sure that there is no tape in the tape holder when performing this adjustment. A regulated power supply, digital voltmeter, and shorting wire are needed for this adjustment.

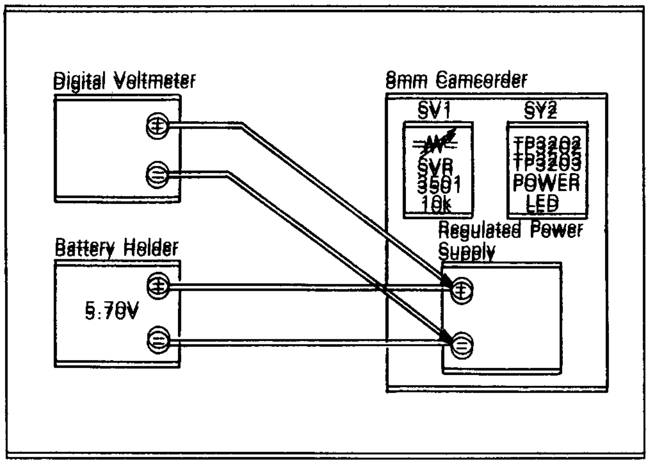


Fig.3-5. Battery failure adjustment

Adjusting Method :

1) Connect the regulated power supply and digital voltmeter as shown in Fig.3-5., and short TP3202 and TP3203. (Set the regulated power supply to 5.70V at this time.)
2) Slide the power switch of the 8mm CAMCORDER to turn on the power.
3) Rotate the trimmer SVR3501 on the SV1 board and stop at the position where the POWER LED flashes (becomes fainter and less distinct). [When the trimmer is rotated in the counterclockwise direction, the LED goes out, and when rotated in the clockwise direction, the LED lights up. It flashes at a position between these two.]
4) Remove the jumper wire for shorting.

NOTE : In this adjustment, should be connecting to camera block.

3-2-1. Switching position adjustment (VD1 Board)

Mode : Playback
Alignment Tape : Operation Checking
(WR5-5CSP)
Oscilloscope CH1 : TP1002 on VD1 board
(LINE OUT)
CH2 : Pin ② of CN1001 on VD1 board (RF SW)
GND : Pin ① of CN1001 on VD1 board

Adjusting Method :
Use SVR3503 on the SV1 board to adjust the interval between the rising edge of CH2 and the vertical SYNC signal of CH1 to 6.5±0.3H (410±20μsec).

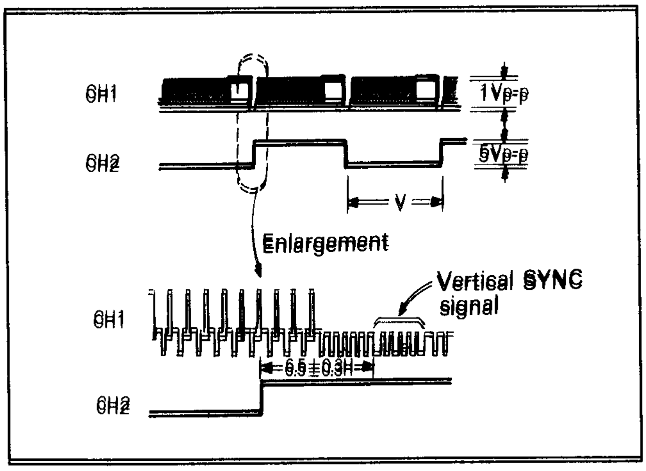


Fig.3-6. Switching position adjustment

3-2-2. Slow tracking adjustment (SV1 and VD1 boards)

Mode : Slow playback
Tape : Self-recorded tape
Oscilloscope :
CH1 : Pin ⑤ of CN1001 on VD1 board (PB RF)
CH2 : Pin ② of CN1001 on VD1 board (RF SW)
GND : Pin ① of CN1001 on VD1 board

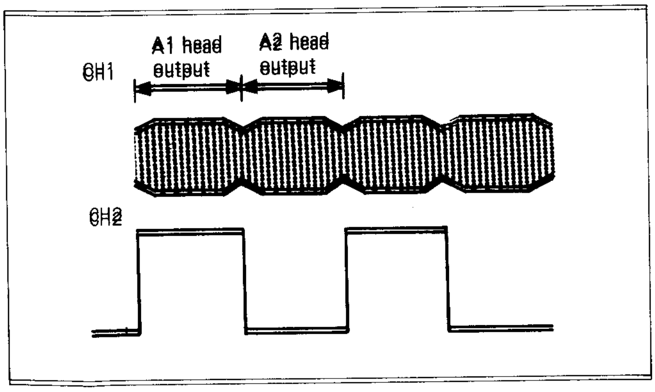


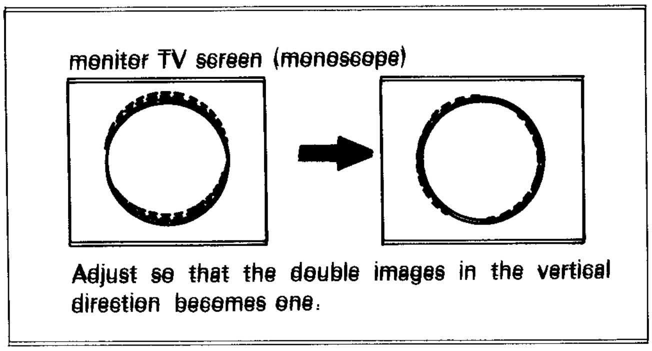
Fig.3-7. Slow tracking adjustment

Adjustment method :
Set SVR1801 on VD1 board as a middle point and adjust with SVR3504 of the board so that the output of A1 head and A2 head become symmetric as shown in Fig.3-7.

3-2-3. Still picture adjustment (VD1 board)

Mode : Still picture playback
Tape : self-recorded tape

Adjustment method :
Adjust by watching the monitor screen.
Adjust with SVR1802 on VD1 board so that vertical shaking of picture (double image in vertical direction) becomes the minimum.



Adjust so that the double images in the vertical direction becomes one.

Fig.3-8. Still picture adjustment

3-3. Video system adjustment

In principle, adjust the video system in the following order.
Color video signals fed by a pattern generator are utilized as video input signals for video system adjustment in the Record mode. Check that the SYNC and color burst signals match the standard designated in adjustment setup shown in Fig.3-3.

〔**Adjusting Procedure**〕

1) Playback frequency characteristics adjustment
2) Special playback frequency characteristics check
3) Flying erase check
4) SYNC AGC adjustment
5) Comb-type filter adjustment
6) BF position adjustment
7) PB Y level adjustment
8) PB LINE OUT level adjustment
9) Y FM carrier frequency adjustment
10) Y FM deviation adjustment
11) REC Y recording current adjustment
12) REC C recording current adjustment
13) REC AFM recording current adjustment
14) REC ATF recording current adjustment
15) EX burst phase adjustment

3-3-1. Playback frequency characteristics adjustment (VD1 Board)

CH-B adjusting elements are shown in [ ] .
Mode : Playback
Alignment Tape : Frequency characteristics adjustment (WR5-2C or WR5-6C)
Oscilloscope CH1 : Pin ⑤ of CN1001 on VD1 board [Pin ⑤ of CN1001]
External Trigger : Pin ② of CN1001 on VD1 board [Pin ② of CN1001]
Trigger slope : +, [−]
Checking Method :
Confirm that the ratio between the 3.58MHz and 5.5MHz levels is 3 : 2.

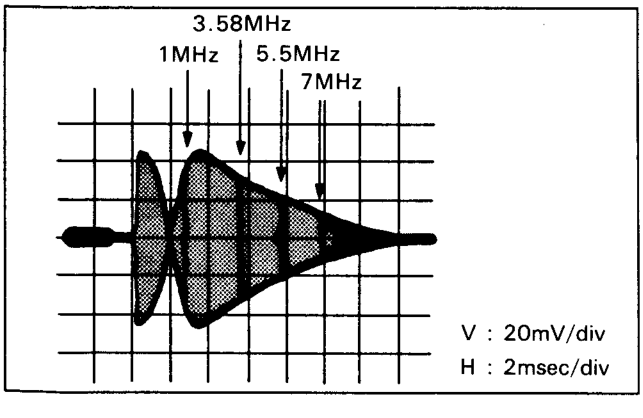


Fig.3-9. Playback frequency characteristics adjustment

3-3-2. Special playback frequency characteristics check (VD1 board)

Mode : Still picture playback
Adjustment Tape : Frequency characteristics adjustment (WR5-2C or WR5-6C)
For confirming function (WR5-5CSP)
Oscilloscope CH1 : Pin ⑤ of CN1001 on VD1 board
External trigger : Pin ② of CN1001 on VD1 board
Trigger slope : 〔−〕

〔**Check method**〕

Playback slowly the tape for frequency characteristic check and playback the still picture. In this case, confirm that the waveform on CHA1 side (RF SW HIGH) is the same as the waveform at the time of normal playback. If it is largely different, repeat scrolling and adjust so that the waveform is almost the same as the waveform at the time of normal playback.
Confirm that ratio of 3.58MHz (RF SW LOW) and 5.5 MHz level on CHA2 is 3:2.
Playback slowly the tape for confirming the function and adjust with slow tracking VR(SVR 1801 on VD1 board) so that it is in the best condition. Then confirm that there is no conspicuous reversal phenomenon.

3-3-3. Flying erase check

Mode : Recording
Input signal : Arbitrary
Oscilloscope : TP1401 (erase check pin)
Checking Method :
Confirm that the oscillation frequency is at least 7.5MHz and the oscillation voltage is at least 7.0Vp-p.

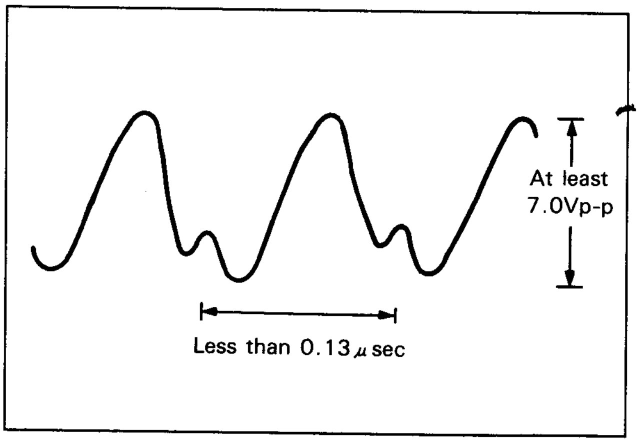


Fig.3-10. Flying erese check

3-3-4. SYNC AGC Adjustment (VD1 board)

Mode : E-E
Input Signal : Color bar (composite signal)
Oscilloscope : TP1001 (Pin ⑪ of IC1001)
Adjusting Method :
Adjust to 0.5±0.01Vp-p with SVR1001.

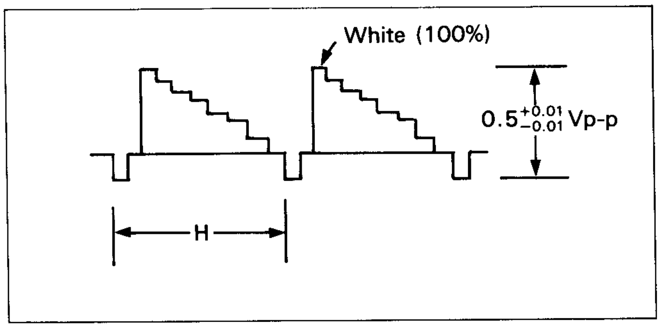


Fig.3-11. SYNC AGC Adjustment

3-3-5. Comb-type filter adjustment

Mode : E-E
Input Signal : Color bars (composite signal)
Oscilloscope : TP1205 (Pin ⑤ of IC1701)
Adjusting Method :
Use the 100μF capacitor and lead wire with alligator clip. Connect 100μF capacitor with lead wire betwween TP1206 and GND (TP1301).
Adjust with SVR1002 to minimize the residual chroma components.

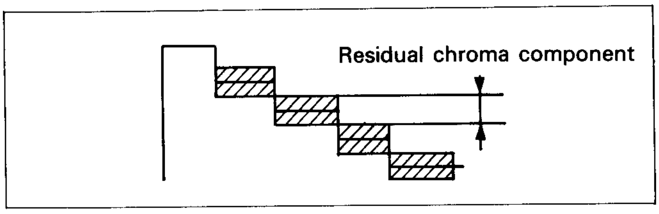


Fig.3-12. Comb-type filter adjustment

3-3-6. BF Position adjustment (VD1 Board)

Mode : E-E
Input Signal : Color bar (composite signal)
Oscilloscope : TP1204 (Pin ⑧ of IC1201)
Use lead wire with clips and 3.3kΩ resistor
Adjusting Method :
Connect TP1204 and TP1301 (GND) using the lead wire with 3.3kΩ resistor.
Adjust BF (burst flag) to 6.9±0.1μsec using SVR1206.

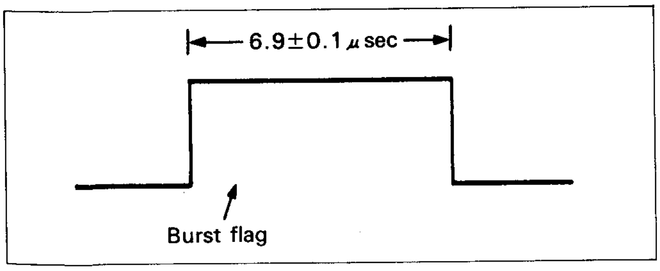


Fig.3-13. BF Position adjustment

3-3-7. PB Y Level adjustment (VD1 Board)

Mode : Playback
Alignment Tape : Operation checking (WR5-5CSP)
Color bar portions
Oscilloscope : TP1201 (Pin ㊼ of IC1201)
Adjusting Method :
Adjust to 0.5±0.01Vp-p with SVR1204.

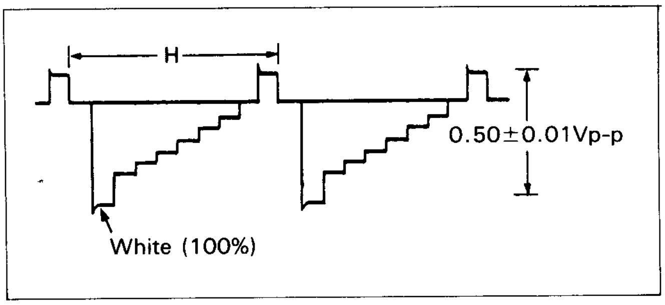


Fig.3-14. PB Y Level adjustment

3-3-8. PB LINE OUT Level adjustment (VD1 Board)

Mode : Playback
Alignment Tape : Operation checking (WR5-5CSP)
Color bar portions
Oscilloscope : TP1002 (VIDEO OUT)
The RF adaptor or AV cord should be connected and the video output terminal should be terminated at 75Ω.

Adjusting Method :
Adjust to 1.00±0.02Vp-p with SVR1002.

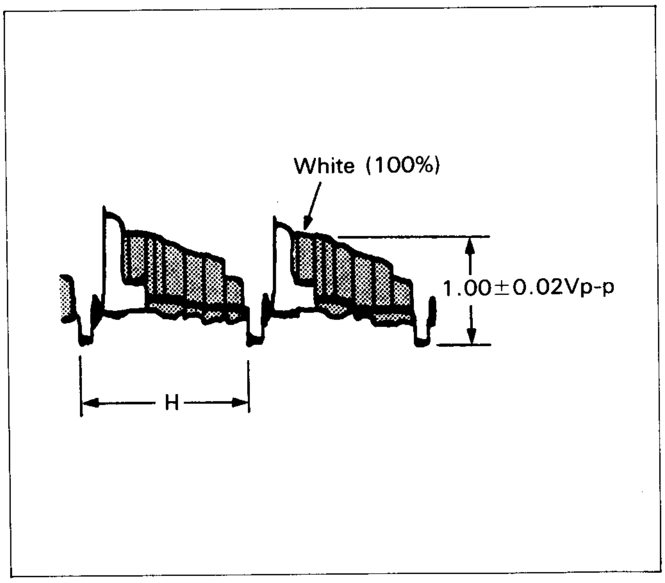


Fig.3-15. PB LINE OUT Level adjustment

3-3-9. Y FM Carrier frequency adjustment (VD1 Board)

Mode : E-E
Input signal : No signal
Oscilloscope : TP1302
Frequency Counter : TP1302
Adjusting Method :
Adjust to 4.39±0.05MHz with SVR1203.
Note : When adjusted to 4.39MHz with no singal, the level will be 4.20MHz with signal.

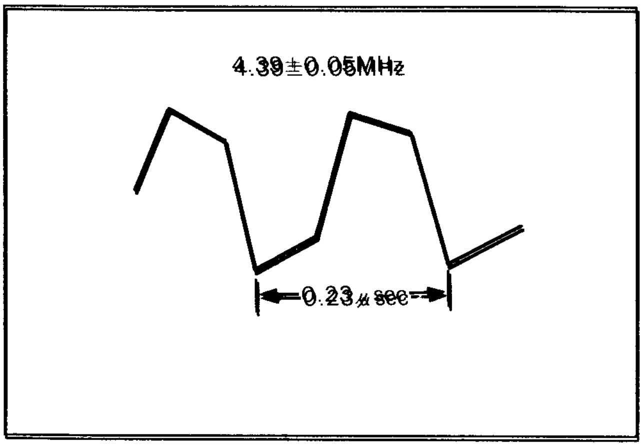


Fig.3-16. Y FM Carrier frequency adjustment

3-3-10. Y FM Deviation adjustment

Mode : Playback and record
Input Signal : Color bar (Y signal only)
Oscilloscope : TP1002 (VIDEO OUT)
Note :
1) The RF adaptor or AV cord should be connected and video output terminal should be terminated at 75Ω.
2) Perform this adjustment after SYNC AGC adjustment, PB Y level adjustment, PB LINE OUT level adjustment, Y FM carrier frequency adjustment.

Adjusting Method :
1) Record the color bar Y signal.
2) Playback the recorded level.
3) Check the playback level.
The specified value is 1.00±0.05Vp-p.
4) If the specified value is not satisfied, repeat steps 1) through 3) after rotating SVR1202 on the VD1 board in the following manner.

	Rotation Direction for SVR1202
When higher than specified value	Counterclockwise direction (↺)
When lower than specified value	Clockwise direction (↻)

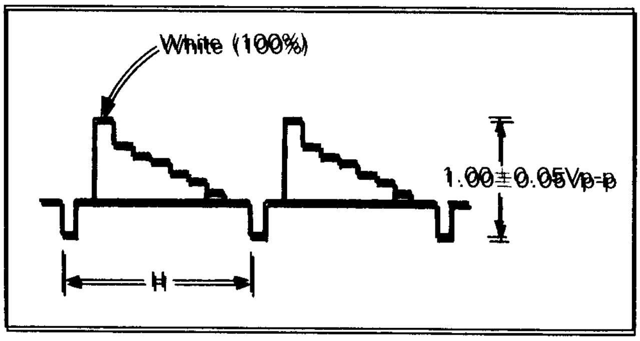


Fig.3-17. Y FM Deviation adjustment

3-3-11. REC Y Recording current adjustment (VD1 Board)

Mode : Record
Tape : MP type
Input Signal : No signal
Oscilloscope : TP1501
Adjusting Method :
Adjust to the range of 225 to 235mVp-p with SVR1302.

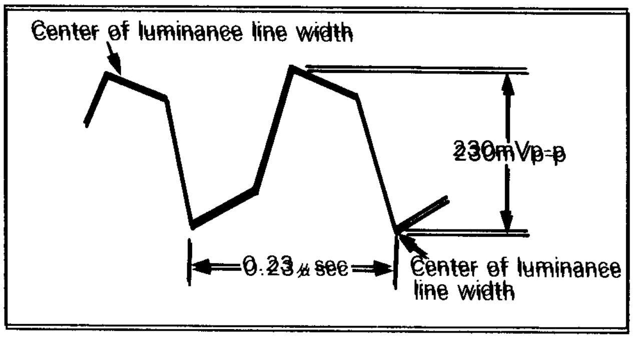

Center of luminance line width
230mVp-p
0.23μsec
Center of luminance line width

Fig.3-18. REC Y Recording current adjustment

3-3-12. REC C Recording current adjustment (VD1 Board)

Mode : Record
Tape : MP type
Input Signal :Color bar (composite signal)
Oscilloscope : TP1303
Adjusting Method :
Adjust the burst level to 150mVp-p with SVR1301.

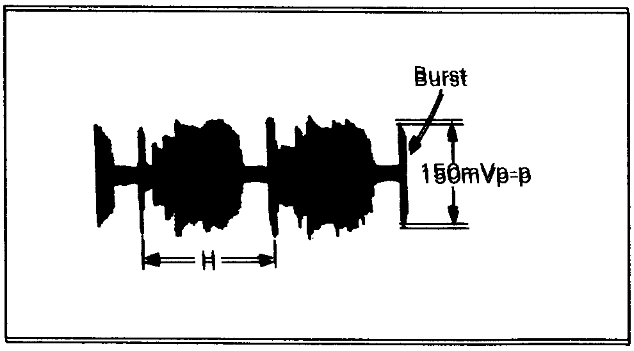


Fig.3-19. REC C Recording current adjustment

3-3-13. REC AFM Recording current adjustment (VD1 Board)

Mode : Record
Tape : MP type
Input Signal : Color bar (composite signal)
Audio input signal : No singal
Oscilloscope : TP1305
Adjusting Method :
Adjust to 35mVp-p with SVR1304.

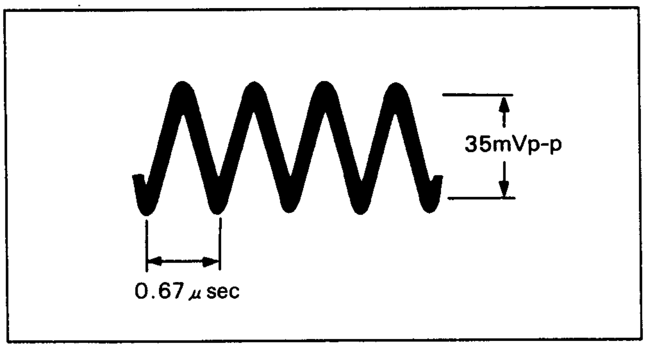


Fig.3-20. REC AFM Recording current adjustment

3-3-14. REC ATF Recording current adjustment (VD1 Board)

Mode : Record in SP mode
Tape : MP type
Input Signal : Color bar (composite signal)
Oscilloscope : TP1304
Adjusting Method :
Adjust to 320mVp-p with SVR1303.

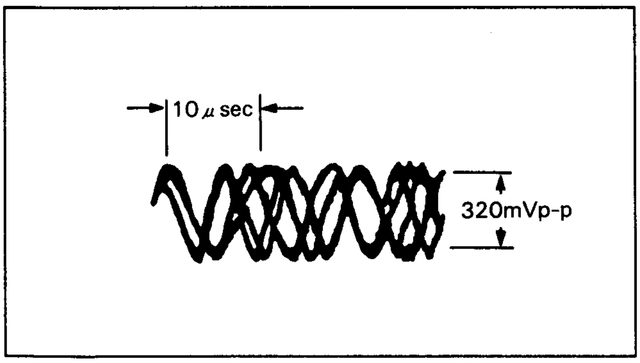


Fig.3-21. REC ATF Recording current adjustment

3-3-15. EX burst phase adjustment

Mode : Record and Playback
Input Signal : Color bar (composite signal)
Vectorscope TP1002 (VIDEO OUT)
The RF adaptor or AV cord should be connected and the video output terminal should be terminated at 75Ω.
Adjusting Method :
When luminance point of color bar Y_L is properly positioned with the test points TP1901 and TP1004 connected with jumper, connect the said test points to another test point TP1902 with jumper and adjust SVR1901 so that the luminance point of color bar Y_L may be properly positioned on the screen as specified.

When luminance point of color bar Y_L is properly positioned with the test points TP1901 and TP1301 connected with jumper, connect the said test points to another two test points TP1902 and TP1004 with jumpers in order to adjust SVR1902 so that the luminance point of color bar Y_L may be properly positioned on the CRT as specified.

3-3. Video system adjustment
(For UK only (SANYO)
For germany only (FISHER))

In principle, adjust the video system in the following order.
Color video signals fed by a pattern generator are utilized as video input signals for video system adjustment in the Record mode. Check that the SYNC and color burst signals match the standard designated in adjustment setup shown in Fig.3-3.

〔**Adjusting Procedure**〕
1) Playback frequency characteristics adjustment
2) Special playback frequency characteristics check
3) Flying erase check
4) SYNC AGC adjustment
5) Comp-type filter adjustment
6) BF position adjustment
7) PB Y level adjustment
8) PB LINE OUT level adjustment
9) Y FM carrier frequency adjustment
10) Y FM deviation adjustment
11) REC Y recording current adjustment
12) REC C recording current adjustment
13) REC AFM recording current adjustment
14) REC ATF recording current adjustment
15) EX burst phase adjustment

3-3-1. Playback frequency characteristics adjustment (VD1 Board)

CH-B adjusting elements are shown in [ ] .
Mode : Playback
Alignment Tape : Frequency characteristics adjustment (WR5-2C or WR5-6C)
Oscilloscope CH1 : Pin ⑤ of CN1001 on VD1 board [Pin ⑤ of CN1001]
External Trigger : Pin ② of CN1001 on VD1 board [Pin ② of CN1001]
Trigger slope : +, [−]
Checking Method :
Confirm that the ratio between the 3.58MHz and 5.5MHz levels is 3 : 2.

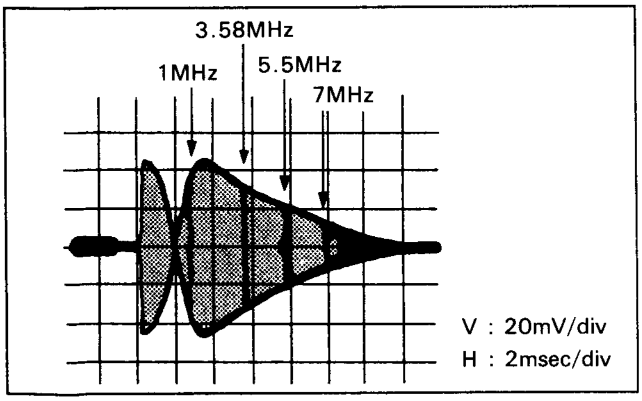


Fig.3-9. Playback frequency characteristics adjustment

3-3-2. Special playback frequency characteristics check (VD1 board)

Mode : Still picture playback
Adjustment Tape : Frequency characteristics adjustment (WR5-2C or WR5-6C)
For confirming function (WR5-5CSP)
Oscilloscope CH1 : Pin ⑤ of CN1001 on VD1 board
External trigger : Pin ② of CN1001 on VD1 board
Trigger slope : 〔−〕

〔**Check method**〕
Playback slowly the tape for frequency characteristic check and playback the still picture. In this case, confirm that the waveform on CHA1 side (RF SW HIGH) is the same as the waveform at the time of normal playback. If it is largely different, repeat scrolling and adjust so that the waveform is almost the same as the waveform at the time of normal playback.
Confirm that ratio of 3.58MHz (RF SW LOW) and 5.5 MHz level on CHA2 is 3:2.
Playback slowly the tape for confirming the function and adjust with slow tracking VR(SVR 1801 on VD1 board) so that it is in the best condition. Then confirm that there is no conspicuous reversal phenomenon.

3-3-3. Flying erase check

Mode : Recording
Input signal : Arbitrary
Oscilloscope : TP1401 (erase check pin)
Checking Method :
Confirm that the oscillation frequency is at least 7.5MHz and the oscillation voltage is at least 7.0Vp-p.

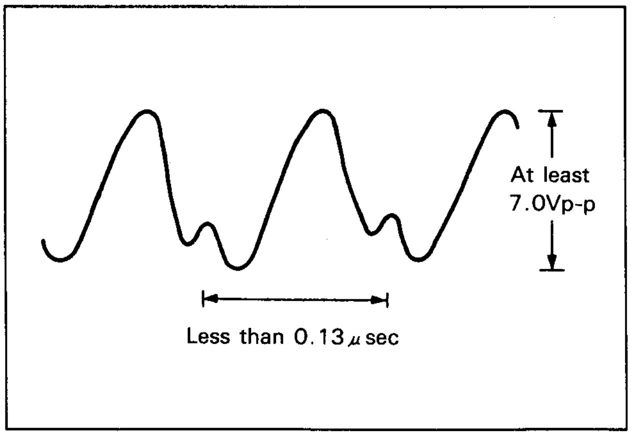


Fig.3-10. Flying erese check

3-3-4. SYNC AGC Adjustment (VD1 board)

Mode : E-E

Input Signal : Color bar (Y signal)

Oscilloscope : TP1003 (Pin (54) of IC1201)

Adjusting Method :

Adjust to 0.5±0.01Vp-p with SVR1001.

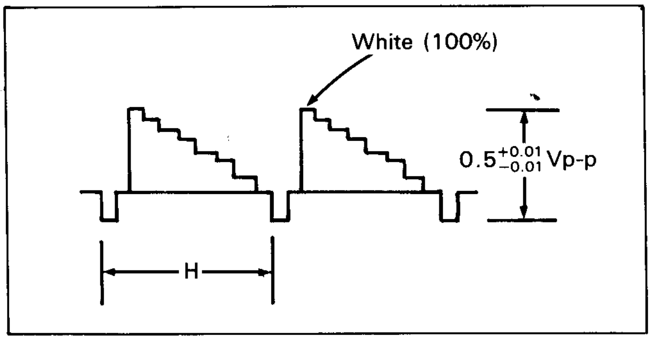


Fig.3-11. SYNC AGC Adjustment

3-3-5. Comb-type filter adjustment

Mode : E-E

Input Signal : Color bars (composite signal)

Oscilloscope : TP1205 (Pin ⑤ of IC1701)

Adjusting Method :

Adjust with SVR1201 to minimize the residual chroma components.

[Note] Interference appears on E-E picture.

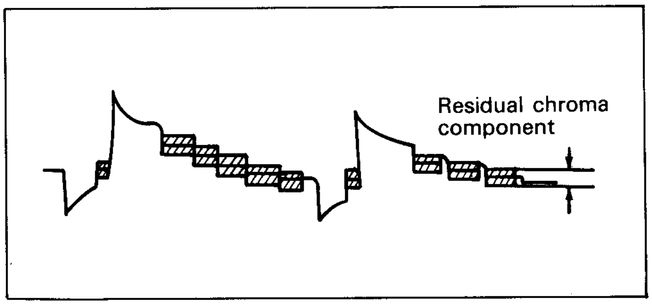


Fig.3-12. Comb-type filter adjustment

3-3-6. BF Position adjustment (VD1 Board)

Mode : E-E

Input Signal : Color bar (Y signal)

Oscilloscope : TP1204 (Pin ⑧ of IC1201)

Use lead wire with clips and 3.3kΩ resistor

Adjusting Method :

Connect TP1204 and TP1301 (GND) using the lead wire with 3.3kΩ resistor.

Adjust BF (burst flag) to 6.1±0.1μsec using SVR1206.

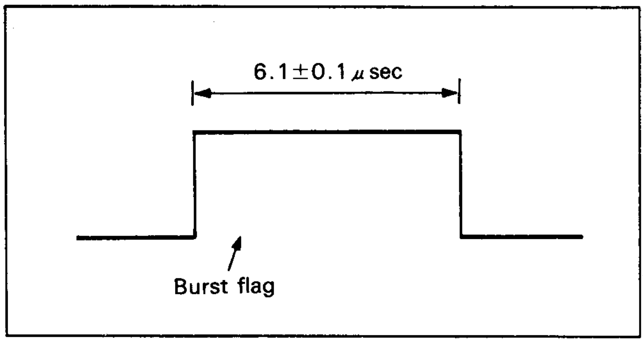


Fig.3-13. BF Position adjustment

3-3-7. PB Y Level adjustment (VD1 Board)

Mode : Playback

Alignment Tape : Operation checking (WR5-5CSP)
Color bar portions

Oscilloscope : TP1201 (Pin ㊼ of IC1201)

Adjusting Method :

Adjust to 0.5±0.01Vp-p with SVR1204.

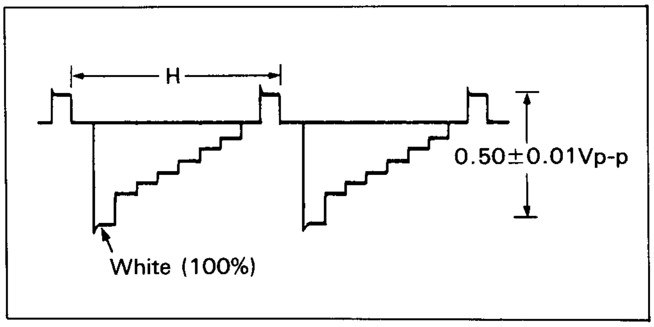


Fig.3-14. PB Y Level adjustment

3-3-8. PB LINE OUT Level adjustment (VD1 Board)

Mode : Playback

Alignment Tape : Operation checking (WR5-5CSP)
Color bar portions

Oscilloscope : TP1002 (VIDEO OUT)
The RF adaptor or AV cord should be connected and the video output terminal should be terminated at 75Ω.

Adjusting Method :

Adjust to 1.00±0.02Vp-p with SVR1002.

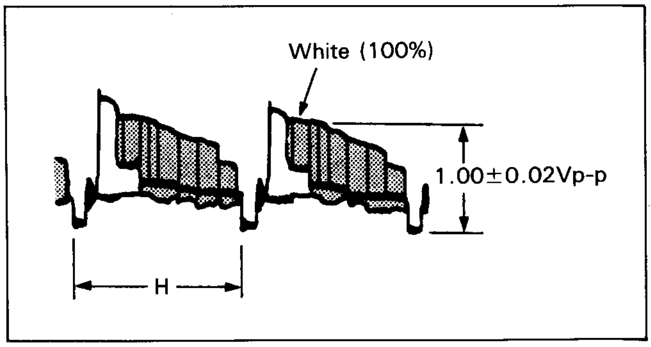


Fig.3-15. PB LINE OUT Level adjustment

3-3-9. Y FM Carrier frequency adjustment (VD1 Board)

Mode : E-E

Input signal : No signal

Oscilloscope : TP1302

Frequency Counter : TP1302

Adjusting Method :

Adjust to 4.39±0.05MHz with SVR1203.

Note : When adjusted to 4.39MHz with no singal, the level will be 4.20MHz with signal.

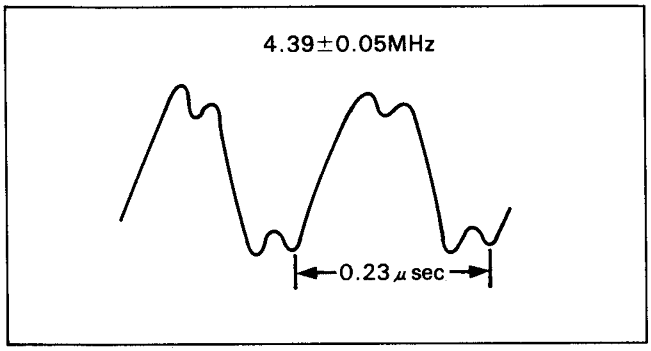


Fig.3-16. Y FM Carrier frequency adjustment

3-3-10. Y FM Deviation adjustment

Mode : Playback and record

Input Signal : Color bar (Y signal only)

Oscillscope : TP1002 (VIDEO OUT)

Note : 1) The RF adaptor or AV cord should be connected and video output terminal should be terminated at 75Ω.

2) Perform this adjustment after SYNC AGC adjustment, PB Y level adjustment, PB LINE OUT level adjustment, Y FM carrier frequency adjustment.

Adjusting Method :

1) Record the color bar Y signal.
2) Playback the recorded level.
3) Check the playback level.
   The specified value is 1.00±0.05Vp-p.
4) If the specified value is not satisfied, repeat steps 1) through 3) after rotating SVR1202 on the VD1 board in the following manner.

	Rotation Direction for SVR1202
When higher than specified value	Counterclockwise direction (↺)
When lower than specified value	Clockwise direction (↻)

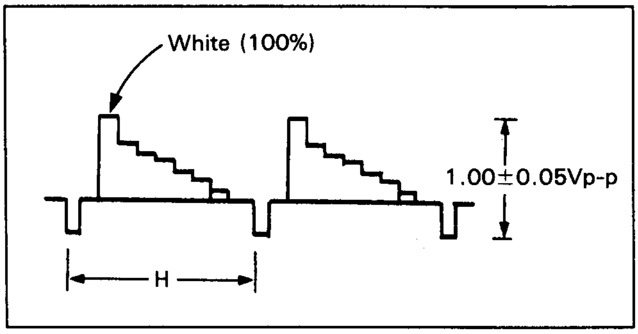


Fig.3-17. Y FM Deviation adjustment

3-3-11. REC Y Recording current adjustment (VD1 Board)

Mode : Record

Tape : MP type

Input Signal : No signal

Oscilloscope : TP1501

Adjusting Method :

Adjust to the range of 265 to 275mVp-p with SVR1302.

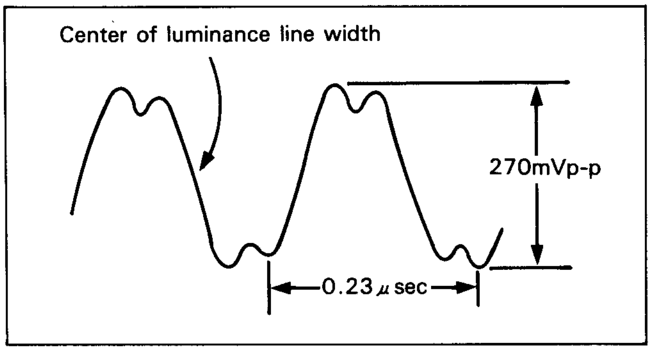


Fig.3-18. REC Y Recording current adjustment

3-3-12. REC C Recording current adjustment (VD1 Board)

Mode : Record

Tape : MP type

Input Signal : Camera signal (Connect the camera section)

Oscilloscope : TP1303

Adjusting Method :

Adjust the burst level to 150mVp-p with SVR1301.

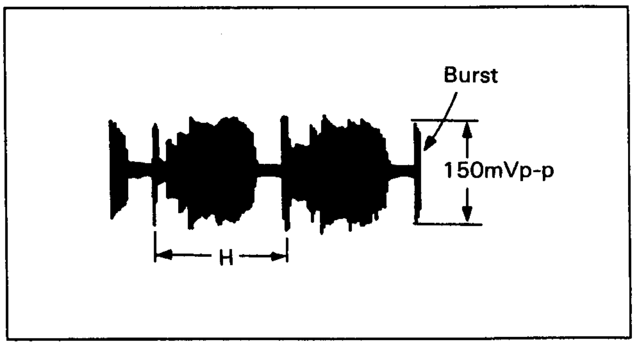


Fig.3-19. REC C Recording current adjustment

3-3-13. REC AFM Recording current adjustment (VD1 Board)

Mode : Record
Tape : MP type
Input Signal : Color bar (composite signal)
Audio input signal : No singal
Oscilloscope : TP1305
Adjusting Method :
Adjust to 35mVp-p with SVR1304.

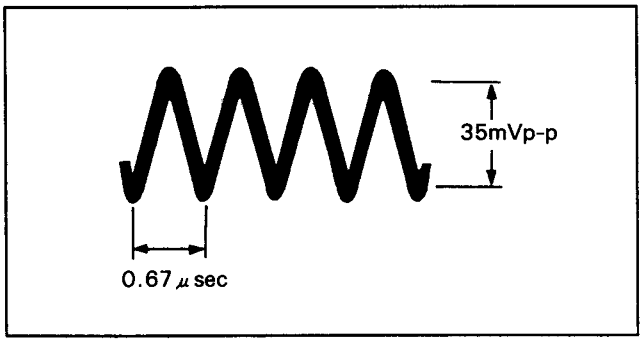


Fig.3-20. REC AFM Recording current adjustment

3-3-14. REC ATF Recording current adjustment (VD1 Board)

Mode : Record in SP mode
Tape : MP type
Input Signal : Color bar (composite signal)
Oscilloscope : TP1304
Adjusting Method :
Adjust to 320mVp-p with SVR1303.

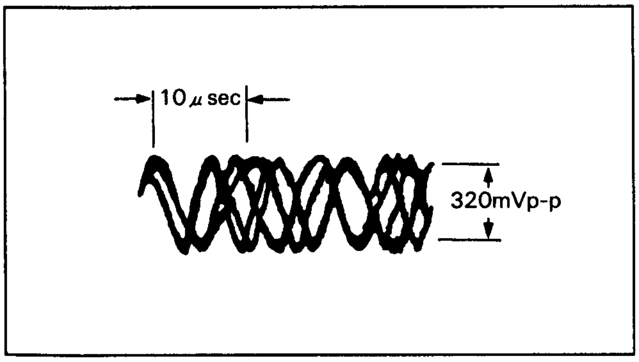


Fig.3-21. REC ATF Recording current adjustment

3-3-15. EX burst phase adjustment

Mode : Record and Playback
Input Signal : Color bar (composite signal)
Vectorscope TP1002 (VIDEO OUT)
The RF adaptor or AV cord should be connected and the video output terminal should be terminated at 75Ω.
Adjusting Method :
When luminance point of color bar Y_L is properly positioned with the test points TP1901 and TP1004 connected with jumper, connect the said test points to another test point TP1902 with jumper and adjust SVR1901 so that the luminance point of color bar Y_L may be properly positioned on the screen as specified.

When luminance point of color bar Y_L is properly positioned with the test points TP1901 and TP1301 connected with jumper, connect the said test points to another two test points TP1902 and TP1004 with jumpers in order to adjust SVR1902 so that the luminance point of color bar Y_L may be properly positioned on the CRT as specified.

3-4. Audio adjustment

Connection of audio measurement equipment

Connect the audio measurement equipment as well as the video measurement equipment.

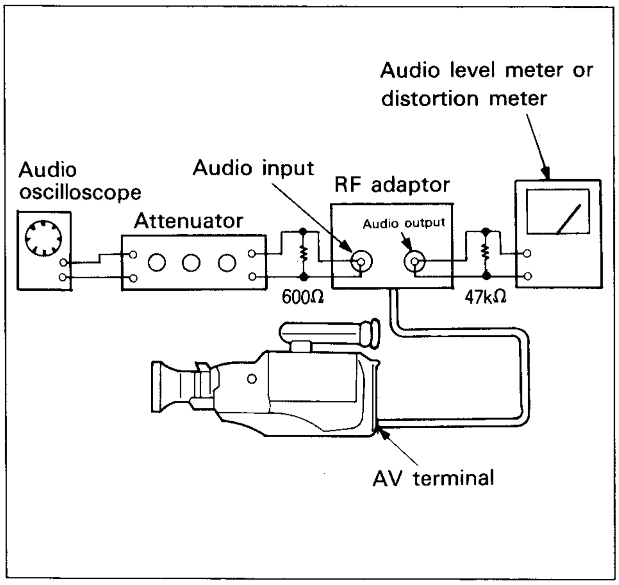


Fig.3-22.

(Adjustment Procedure)

1) AFM carrier frequency check
2) AFM deviation check
3) E-E output level check
4) Overall level characteristic check
5) Overall distortion factor check
6) Overall S/N check

3-4-1. AFM Carrier frequency check (VD1 Board)

Mode : RECORD
Audio Input Signals : None
Frequency Counter : Pin ⑪ of IC2001
Checking Method :
The frequency must be 1,500±0.01MHz.

3-4-2. AFM deviation check (VD1 Board)

Mode : PLAYBACK
Playback Tape : Operation checking (WR5-5NSP)
Checking Method :
The audio output level must be −6±2dBs.

3-4-3. E-E Output level check

Mode : E-E or RECORD
Audio Input Signals : 400Hz, −6dBs
Checking Method :
The audio output level must be −6±3dBs.

3-4-4. Overall level characteristic check

Mode : Self-recording and PLAYBACK
Tape : MP type
Audio Input Signals : 400Hz, −6dBs
Checking Method :

1) Record.
2) Playback recorded portions.
3) The audio output level must be −6±3dBs.

3-4-5. Overall distortion check

Mode : Self-recording and PLAYBACK
Tape : MP type
Audio Input Signals : 400Hz, −6dBs
Checking Method :

1) Record.
2) Playback recorded portions.
3) The distortion must be less than 1.0 %.

3-4-6. Overall S/N check

Mode : Self-recording and PLAYBACK
Tape : MP type
Audio Input Signals : None (Short external microphone input terminal)
Checking Method :

1) Record.
2) Playback recorded portions.
3) Make sure that the dBs value for 3-4-4 (Playback level) minus the dBs value for the playback level of this step is 50dB or greater.

4. ELECTRONIC VIEWFINDER ADJUSTMENT

4-1. Equipment

1. Oscilloscope
2. Frequency counter
3. Alignment tapes
   For operation checking (WR5-5CSP)
   Part code 8-967-995-47

4-2. Adjustment order

Note : Adjustment must be made in the following order.

1. Horizontal oscillation frequency adjustment
2. Viewfinder temporary adjustment
3. Centering adjustment
4. Vertical size adjustment
5. Contrast adjustment
6. Brightness adjustment
7 Focus adjustment

4-3. Horizontal oscillation frequency adjustment

Mode : E-E
Input Signal : No signal
Frequency Counter : Checkered area shown in Fig.4-1.
Adjustment Method :
Adjust to the frequency to 16000±30Hz with VR9901.

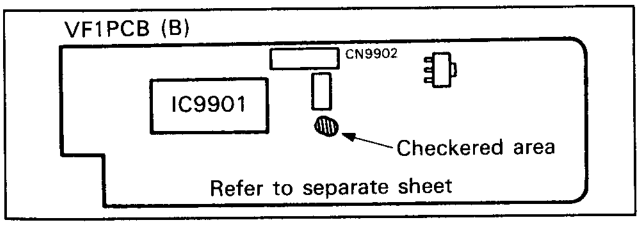


Fig.4-1

4-4. Viewfinder temporary adjustment

Mode : Playback
Alignment Tape : For operation checking
(WR5-5CSP)
(Monoscope section)
Adjustment method :
1) Rotate VR9904 (BRIGHT) for proper brightness.
2) Rotate VR9902 (V SIZE) for proper picture size.
3) Rotate VR9903 (CONTRAST), VR9904 (BRIGHT), and VR9905 (FOCUS) for proper picture.

4-5. Gentering adjustment

Mode : Playback
Alignment Tape : For operation checking
(WR5-5CSP)
(Monoscope section)
Adjustment Method :
1) Rotate the alignment magnet to move the picture to center.
2) Apply lacquer to the centering magnet to fix it in place.

4-6. Vertical size adjustment

Mode : Playback
Aligment Tape : For operation checking
(WR5-5CSP)
Adjustment Method :
Adjust VR9902 so that A and B in Fig.4-2. are equal (so that circular pattern is a true circle).

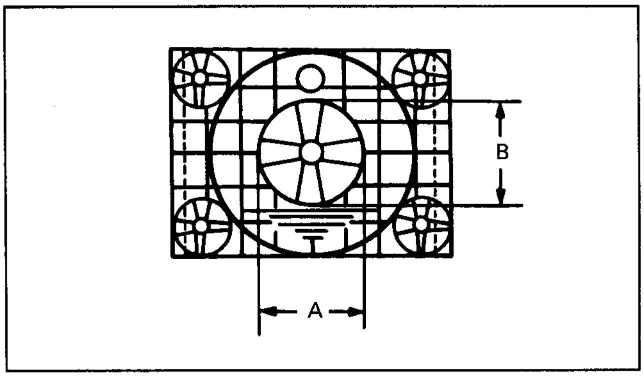


Fig.4-2.

4-7. Contrast adjustment

Mode : Playback

Alignment Tape : For operation checking
(WR5-5CSP)
(Monoscope section)

Oscilloscope : Checkered area shown in Fig.4-3.

Adjustment Method :

Adjust the voltage level to 4±0.1V by rotating VR9903.

Note : This is measured at the right edge of the V period.

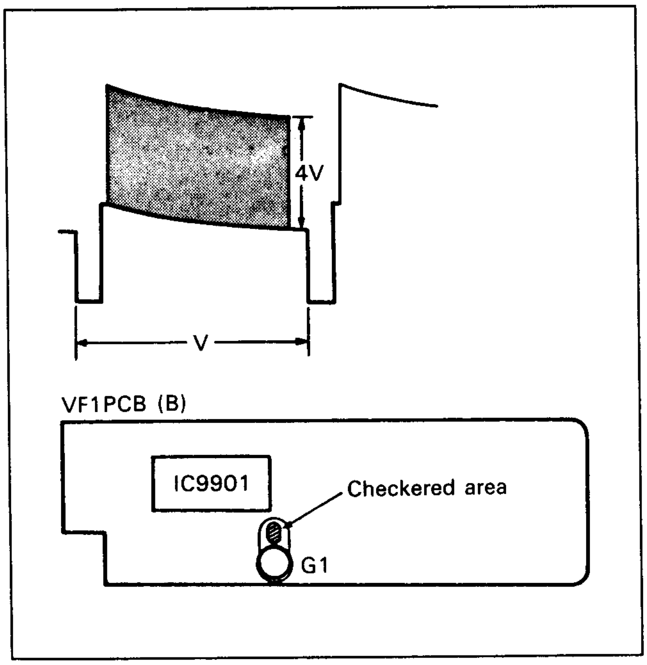


Fig.4-3.

4-8. Brightness adjustment

Mode : Playback

Alignment Tape : For operation checking
(WR5-5CSP)

Adjustment Method :

Rotate VR9904 to adjust for the proper brightness.

4-9. Focus adjustment

Mode : Playback

Alignment Tape : For operation checking
(WR5-5CSP)
(Monoscope section)

Adjustment Method :

Rotate VR9905 to obtain optimum resolution of the monoscope pattern.

4. ELECTRONIC VIEWFINDER ADJUSTMENT (Only for FVC-P901)

4-1. Equipment

1. Oscilloscope
2. Frequency counter
3. Alignment tapes
   For operation checking (WR5-5CSP)
   Part code 8-967-995-47

4-2. Adjustment order

Note : Adjustment must be made in the following order.

1. Horizontal oscillation frequency adjustment
2. Viewfinder temporary adjustment
3. Centering adjustment
4. Horizontal size, viewfinder tilt adjustment
5. Vertical size adjustment
6. Contrast adjustment
7. Brightness adjustment
8. Focus adjustment

4-3. Horizontal oscillation frequency adjustment

Mode : E-E
Input Signal : No signal
Frequency Counter : Checkered area shown in Fig.4-1.
Adjustment Method :
Adjust to the frequency to 16000±30Hz with VR9901.

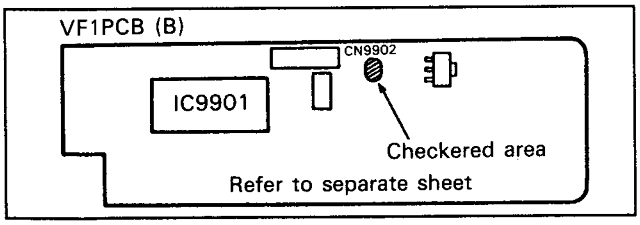


Fig.4-1

4-4. Viewfinder temporary adjustment

Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP) (Monoscope section)
Adjustment method :

1) Rotate VR9904 (BRIGHT) for proper brightness.
2) Rotate VR9902 (V SIZE) for proper picture size.
3) Rotate VR9903 (CONTRAST), VR9904 (BRIGHT), and VR9905 (FOCUS) for proper picture.
4) Mode the DY in direction A of Fig.4-2. to eliminate the gap B.

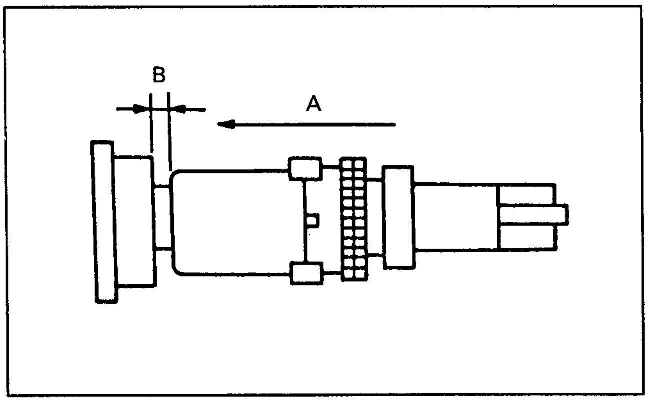


Fig.4-2.

4-5. Gentering adjustment

Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP) (Monoscope section)
Adjustment Method :

1) Rotate the alignment magnet to move the picture to center.
2) Apply lacquer to the centering magnet to fix it in place.

4-6. Viewfinder tilt adjustment

Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP) (Monoscope section)
Adjustment Method :

1) Rotate the deflection coil so that the tilt of the screen is within 0°±1.5°.
2) Rotate the yoke clamp to the right to fix the deflection coil in place.

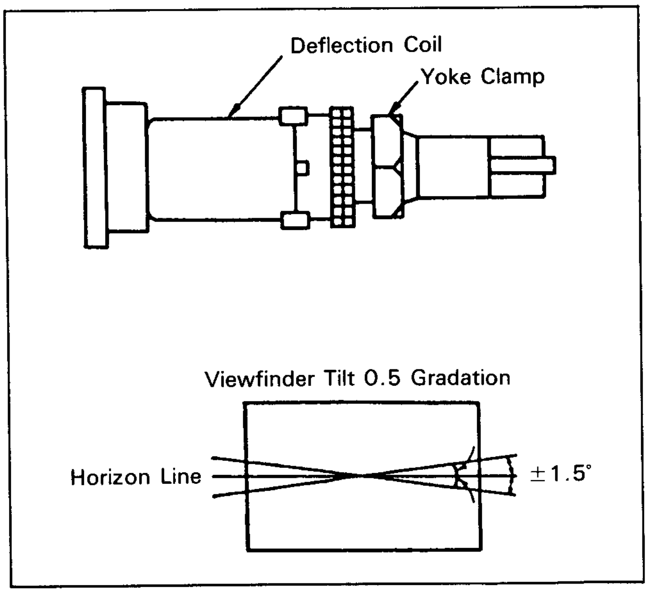


Fig.4-3.

4-7. Vertical size adjustment

Mode : Playback
Aligment Tape : For operation checking (WR5-5CSP)
Adjustment Method :
Adjust VR9902 so that A and B in Fig.4-4.are equal (so that circular pattern is a true circle).

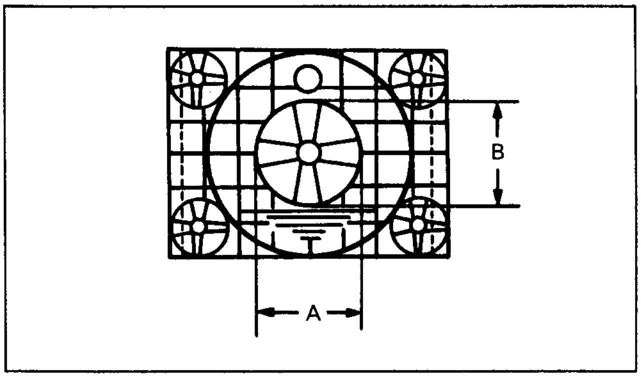


Fig.4-4.

4-8. Contrast adjustment

Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP) (Monoscope section)
Oscilloscope : Checkered area shown in Fig.4-5.
Adjustment Method :
Adjust the voltage level to 6 ± 0.1V by rotating VR9903.
Note : This is measured at the right edge of the V period.

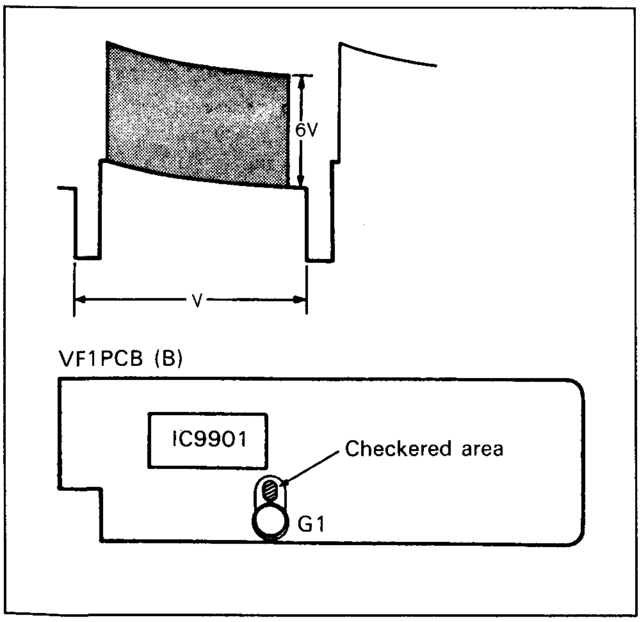


Fig.4-5.

4-9. Brightness adjustment

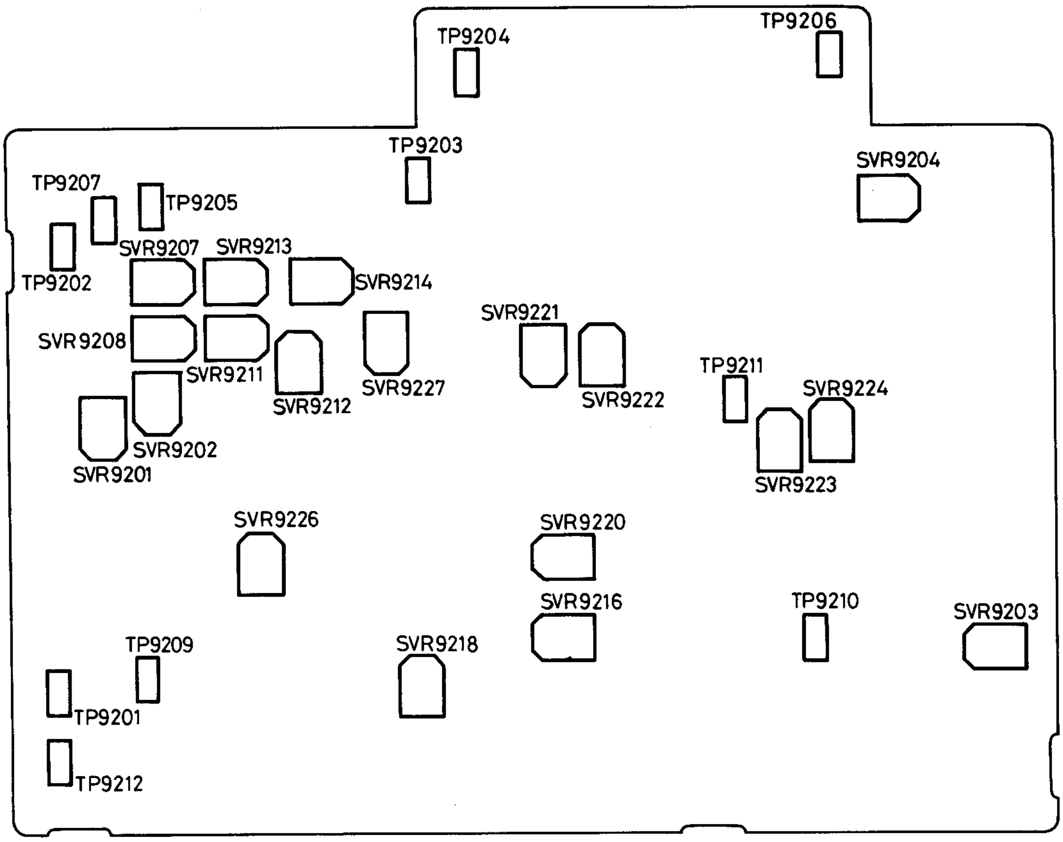
Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP)
Adjustment Method :
Rotate VR9904 to adjust for the proper brightness.

4-10. Focus adjustment

Mode : Playback
Alignment Tape : For operation checking (WR5-5CSP) (Monoscope section)
Adjustment Method :
Rotate VR9905 to obtain optimum resolution of the monoscope pattern.

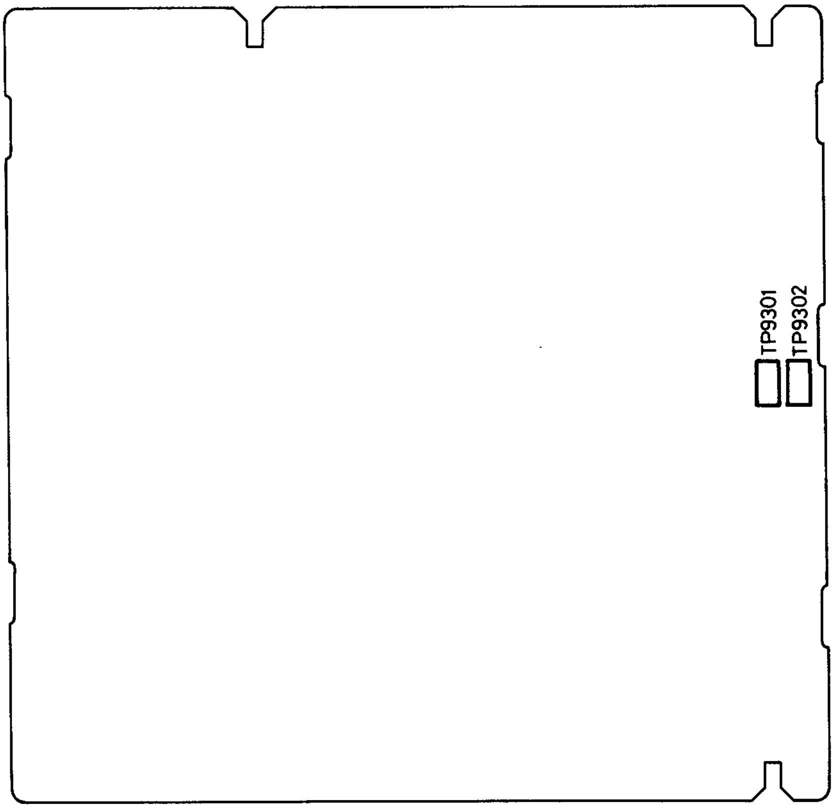
5. TP, SVR LOCATION

CA2 Board (Side B)



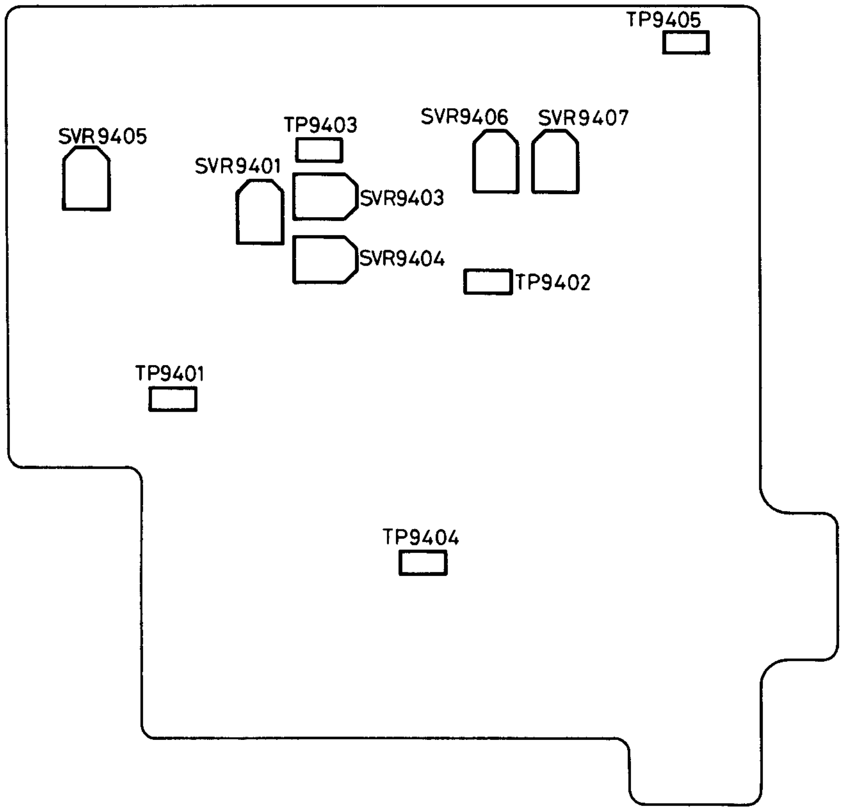
TP9204
TP9206
TP9203
SVR9204
TP9207
TP9205
SVR9207
SVR9213
TP9202
SVR9214
SVR9221
SVR9208
SVR9211
SVR9227
SVR9212
TP9211
SVR9224
SVR9222
SVR9202
SVR9201
SVR9223
SVR9226
SVR9220
SVR9216
TP9210
SVR9203
TP9209
SVR9218
TP9201
TP9212

CA3 Board (Side B)

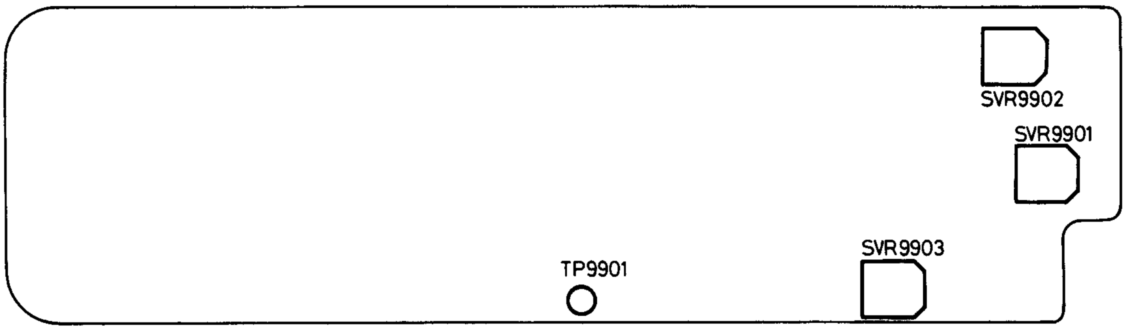


TP9301
TP9302

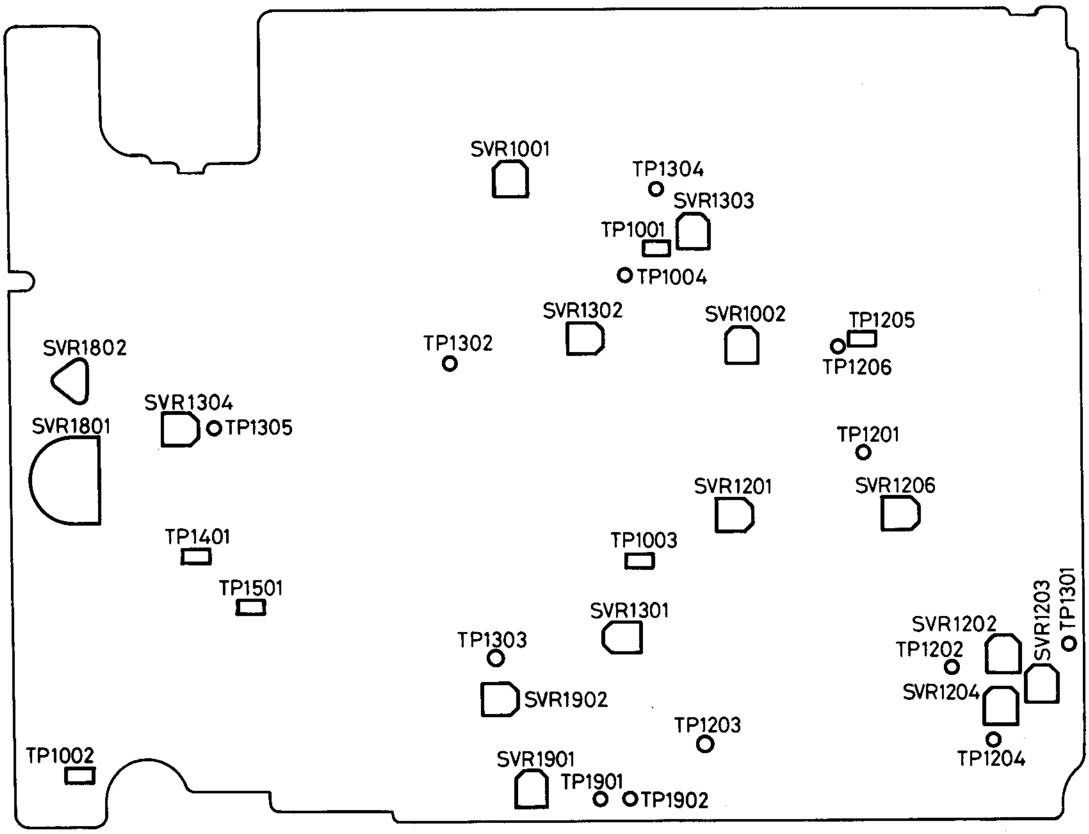
CA4 Board (Side A)


TP9405
SVR9405
TP9403
SVR9406
SVR9407
SVR9401
SVR9403
SVR9404
TP9402
TP9401
TP9404

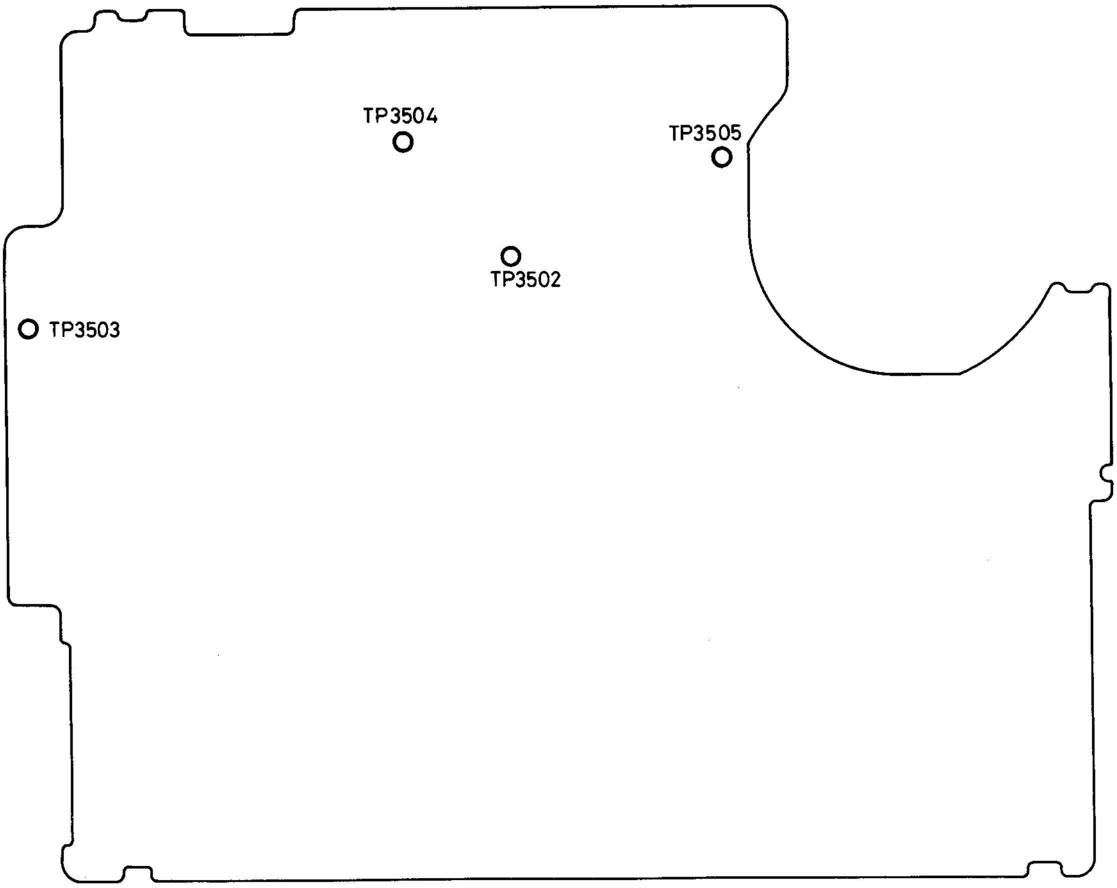
VF1 Board (Side A)


SVR9902
SVR9901
SVR9903
TP9901

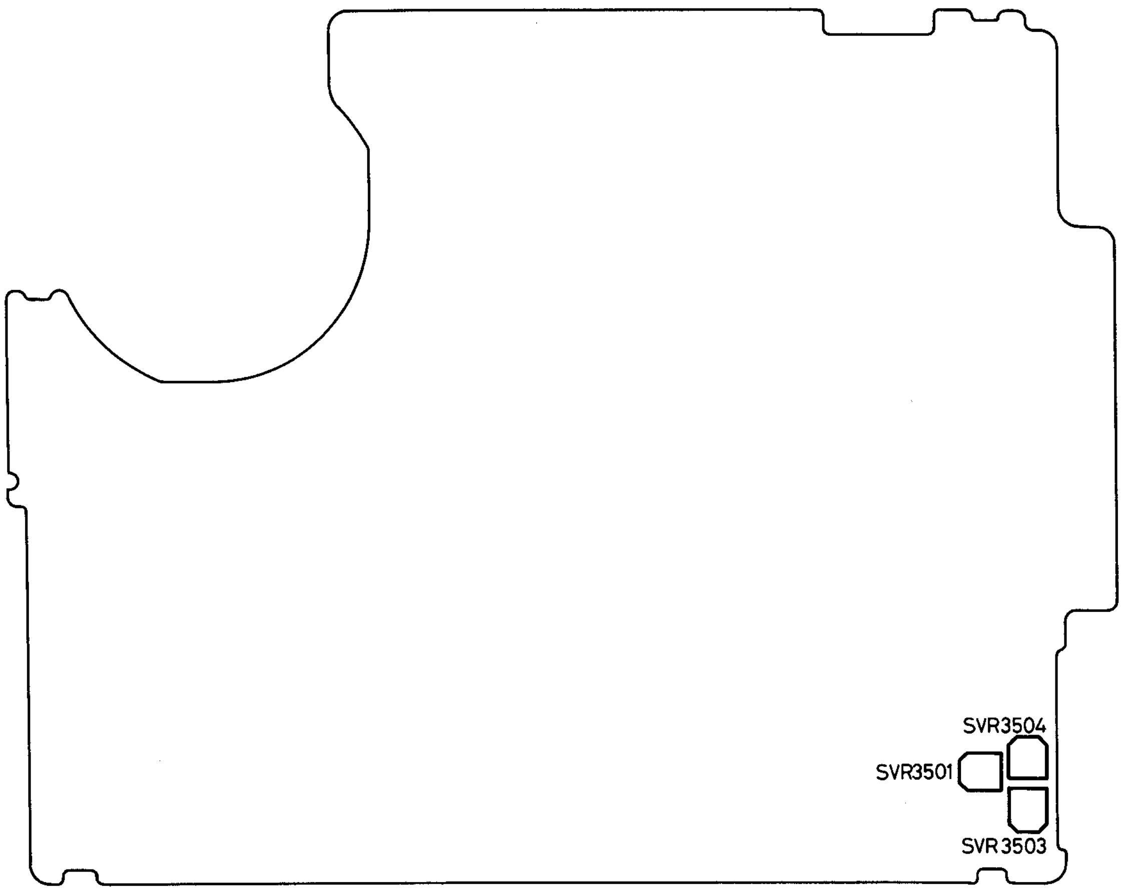
VD1 Board (Side A)


SVR1001
TP1304
SVR1303
TP1001
TP1004
SVR1302
SVR1002
TP1205
TP1206
SVR1802
TP1302
SVR1304
SVR1801
TP1305
TP1201
SVR1201
SVR1206
TP1401
TP1003
TP1501
SVR1301
SVR1203
TP1301
SVR1202
TP1303
TP1202
SVR1204
SVR1902
TP1203
TP1204
TP1002
SVR1901
TP1901
TP1902

SV1 Board (Side A)


TP3504
TP3505
TP3502
TP3503

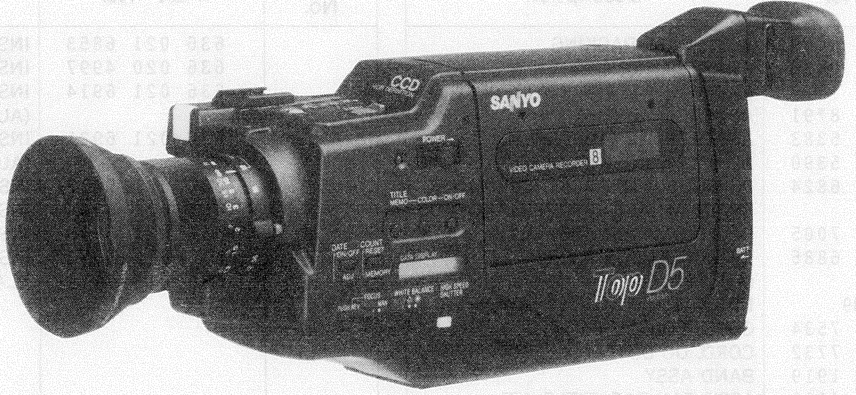
SV1 Board (Side B)


SVR3504
SVR3501
SVR3503

B022

SANYO

Parts List 8mm Camcorder VM-D5P



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ER5P/G, E, A, SP, ME, SW

REFERENCE No. WM-550017
Printed in Japan

PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage and voltage ratings shown.

NOTE : Parts order must contain Model Number, Part Number and Description.

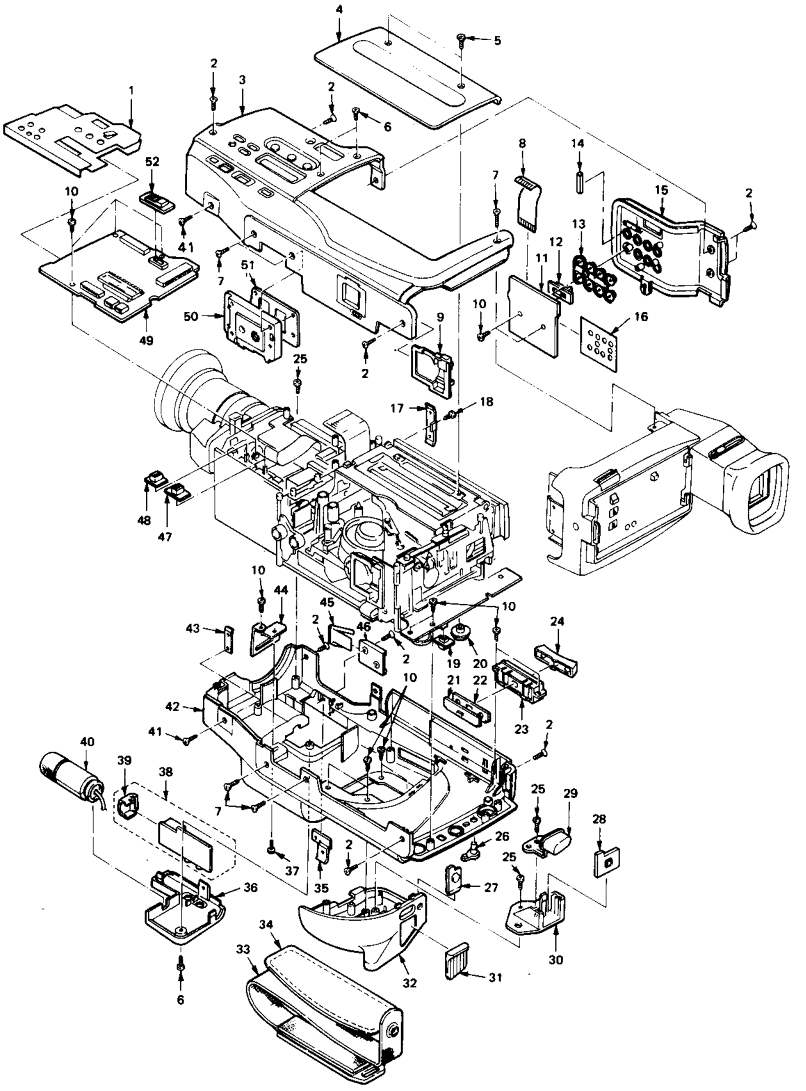
ACCESSORIES

Ref. No.	Part No.	Description
	636 020 4669	ASSY, CASE PACKING
	636 019 0436	ADAPTER,AC (GERMANY, SPAIN, SWITZERLAND)
	636 019 8791	ADAPTER, AC (UK)
	636 020 5383	ADAPTER, AC (AUSTRALIA)
	636 020 5390	ADAPTER, AC (M-EAST)
	636 012 6824	RF MODULATOR ASSY (GERMANY, SPAIN, M-EAST, SWITZERLAND)
	636 012 7005	RF MODULATOR ASSY (UK)
	636 012 6886	RF MODULATOR ASSY (AUSTRALIA)
	126–3–2009	NP55
	636 002 7534	CORD, COAXIAL
	636 002 7732	CORD, DC OUT
	636 021 1919	BAND ASSY
	636 022 4186	ASSY, FAN BAG (TITLE KIT)
	636 021 4477	INSTRUCTION MANUAL (GERMANY, SWITZERLAND)
	636 021 4484	INSTRUCTION MANUAL, ACC (GERMANY, SWITZERLAND)

Ref. No.	Part No.	Description
	636 021 6853	INSTRUCTION MANUAL (UK)
	636 020 4997	INSTRUCTION MANUAL, ACC (UK)
	636 021 6914	INSTRUCTION MANUAL (AUSTRALIA)
	636 021 6921	INSTRUCTION MANUAL, ACC (AUSTRALIA)
	636 021 6877	INSTRUCTION MANUAL (SPAIN)
	636 021 6884	INSTRUCTION MANUAL (SPAIN)
	636 021 6945	INSTRUCTION MANUAL (M-EAST)
	636 021 6952	INSTRUCTION MANUAL (M-EAST)
	636 015 7118	PLASTIC DRIVER

CABINET

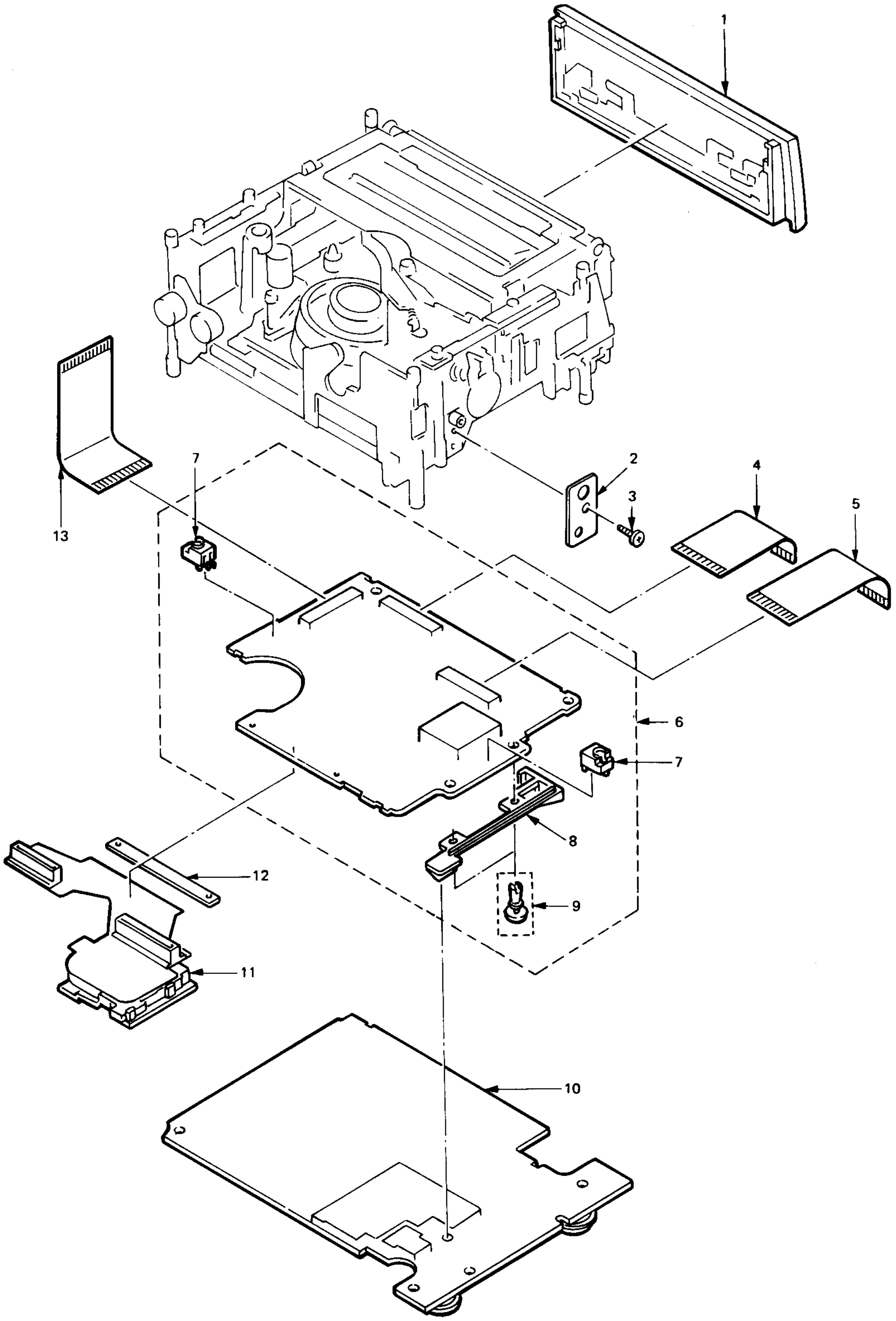
Ref. No.	Part No.	Description
1	636 018 7078	INSULATOR
2	411 033 4000	SCR FLT 2X6
3	636 021 0288	ASSY,CABINET,LEFT
4	636 018 8709	ASSY,DOOR
5	411 030 2504	SCR TPG PAN PCS 1.7X4
6	411 109 4101	SCR S-TPG FLT 2X8
7	411 002 1801	SCR FLT 2X8
8	636 020 8544	FFC 60 16
9	636 013 6632	BRACKET
10	411 025 4209	SCR S-TPG BIN 2X6
11	636 012 9153	SY1 ASSY
12	636 018 6668	KNOB
13	636 018 6620	HINGE BUTTON
14	636 022 1697	PAD
15	636 018 8693	ASSY,PANEL,CONTROL
16	636 023 3515	INSULATOR
17	636 018 6798	BRACKET
18	411 002 5007	SCR PAN 2X6
19	636 018 6675	KNOB
20	636 018 6682	KNOB
21	636 018 8143	TC2 ASSY
22	636 014 1216	RUBBER CONTACT
23	636 014 0554	BRACKET SWITCH
24	636 013 5130	PUSH BUTTON
25	411 021 1202	SCR S-TPG BIN 2X8
26	636 013 5734	STAND
27	636 018 6545	WINDOW
28	636 012 9177	TB1 ASSY
29	636 013 5123	PUSH BUTTON
30	636 018 6828	HOLDER
31	636 019 5523	INLAY
32	636 018 6491	COVER
33	636 021 3203	BELT
34	636 021 3197	PAD
35	636 018 6804	BRACKET
36	636 018 6484	COVER
37	412 022 5602	SCR BIN 2X5
38	636 021 4286	TC1 ASSY
39	636 013 4065	SIGN WINDOW
40	636 020 9770	MIC ASSY
41	412 022 5701	SCR FLT 2X4
42	636 021 0325	CABINET,RIGHT
43	636 014 0912	PLATE NUT
44	636 013 6076	BRACKET BAND
45	636 020 5291	SPRING PLATE
46	636 020 5284	ESCUTCHEON
47	636 018 6644	KNOB
48	636 018 6637	KNOB
49	636 021 4224	SY2 ASSY
50	636 018 5760	BRACKET ASSY
51	636 020 9237	BRACKET
52	636 018 6651	KNOB



PCB

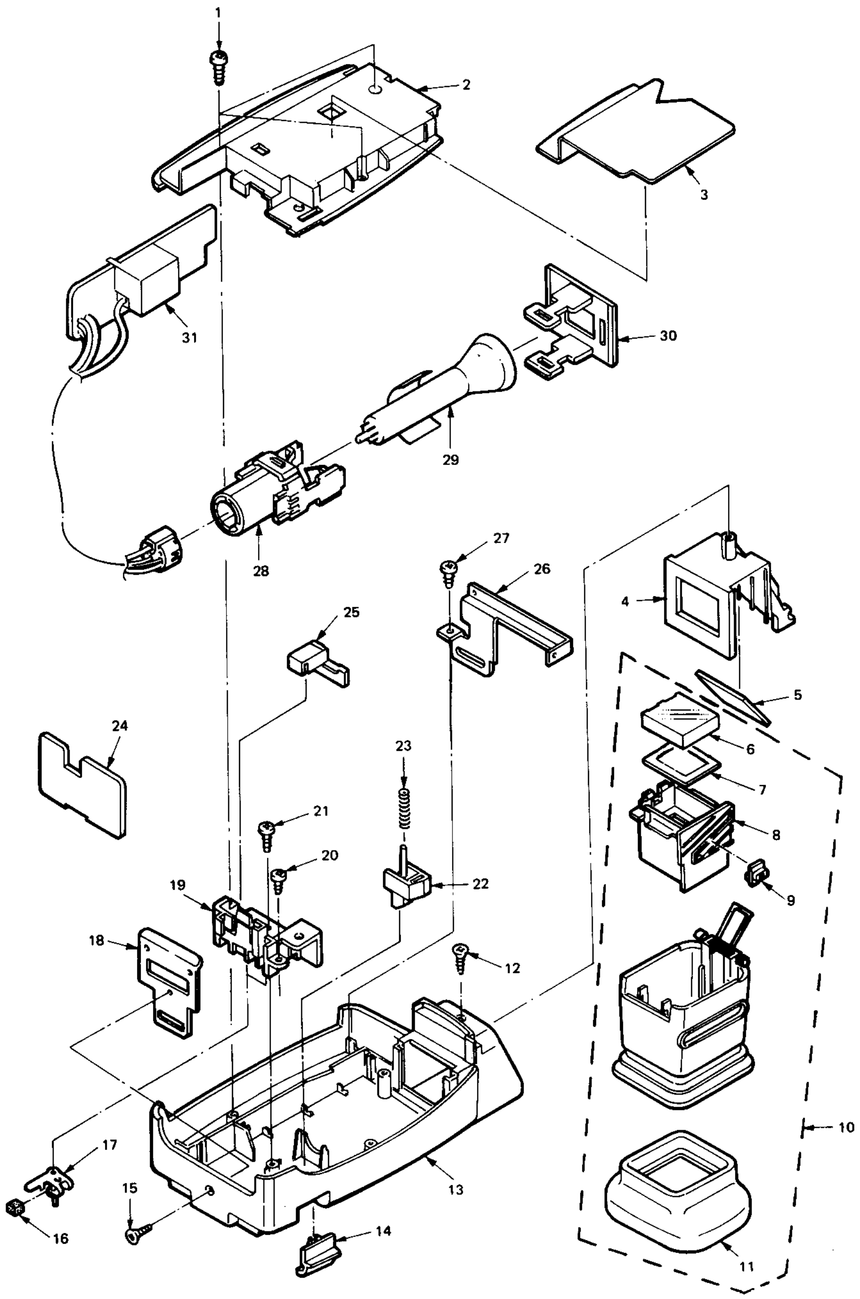
Ref. No.	Part No.	Description
1	636 018 8723	ASSY,DOOR
2	636 013 8988	EARTH PLATE
3	411 025 4209	SCR S-TPG BIN 2X6
4	636 019 0504	FFC 27 20
5	636 019 0498	FFC 39 16
6	636 021 4217	SV1 ASSY
7	636 019 8449	HOLDER
8	636 014 0738	BRACKET P C BOARD
9	636 014 2107	FIXER

Ref. No.	Part No.	Description
10	636 021 4200	VD1 ASSY
11	636 012 7654	F.P C BOARD ASSY
12	636 012 9023	TB3 ASSY
13	636 021 5955	FFC 68 22



VIEWFINDER

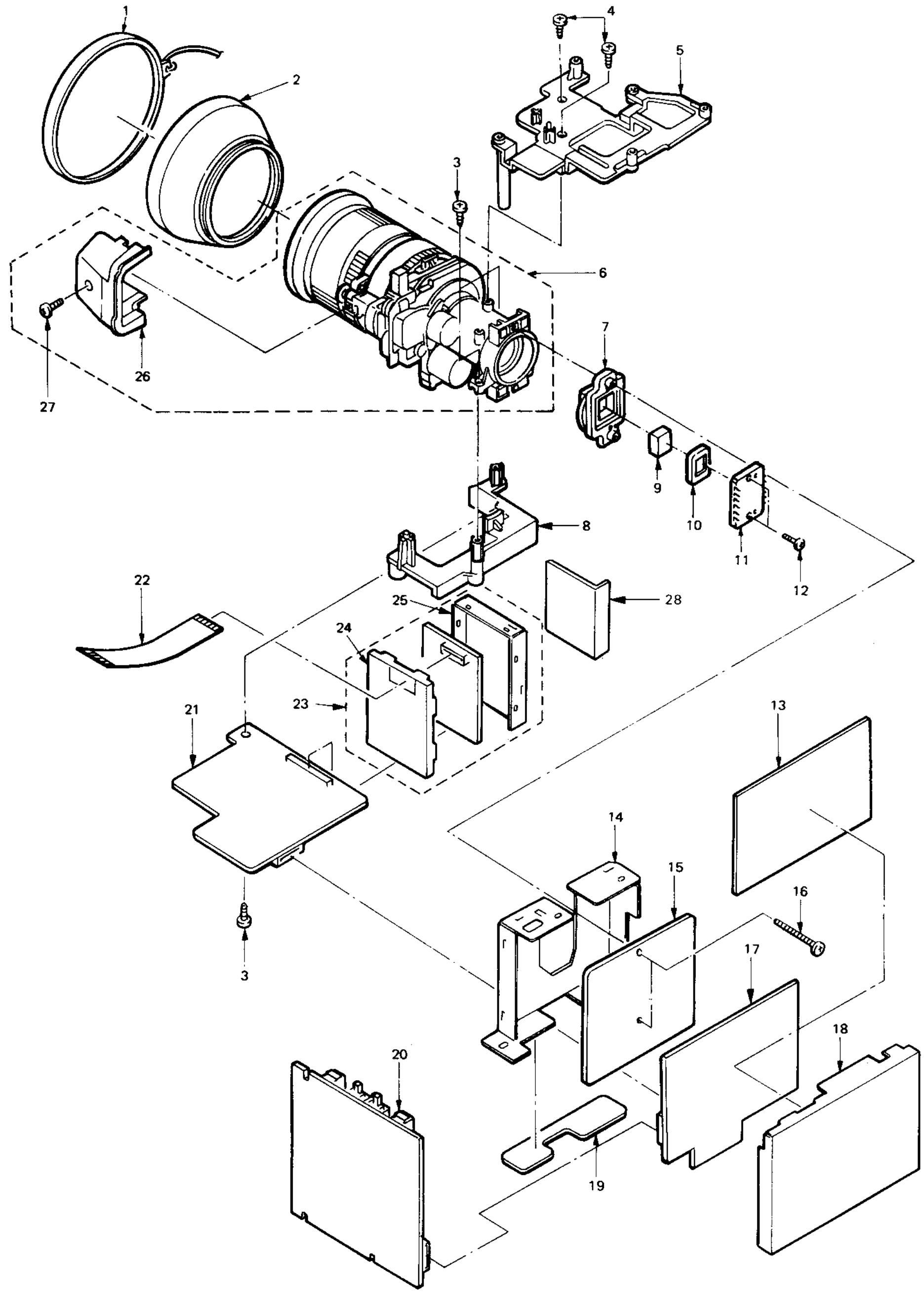
Ref. No.	Part No.	Description
1	411 025 4506	SCR S-TPG BIN 2X8
2	636 018 8846	COVER
3	636 018 6873	SHIELD
4	636 018 9041	HOLDER
5	636 014 6679	MIRROR
6	636 012 7760	LENS ASSY
7	636 013 7431	SHEET
8	636 013 3198	FRAME
9	636 013 5536	SLIDE KNOB
10	636 024 0377	SLEEVE ASSY
11	636 013 7707	HOOD
12	411 109 4309	SCR S-TPG FLT 2X6
13	636 018 8822	CABINET,BACK
14	636 018 8952	KNOB
15	411 033 3003	SCR FLT 2X4
16	636 019 8463	SPACER
17	636 023 3508	TERMINAL
18	636 018 9027	BRACKET
19	636 013 0975	TERMINAL BATTERY ASSY
20	411 025 4209	SCR S-TPG BIN 2X6
21	411 025 3806	SCR S-TPG BIN 2X4
22	636 019 2843	HOLDER
23	636 014 6365	SPRING COIL
24	636 012 9139	PW1 ASSY
25	636 014 2251	FIXER
26	636 018 9010	BRACKET
27	411 025 3806	SCR S-TPG BIN 2X4
28	636 018 7337	YOKE,DEFLECTION
29	636 022 1567	PICTURE TUBE
30	636 018 9058	HOLDER
31	636 021 4163	VF1 ASSY



CAMERA

Ref. No.	Part No.	Description
1	636 013 4423	COVER
2	636 013 7721	HOOD
3	411 025 4209	SCR S-TPG BIN 2X6
4	411 025 3806	SCR S-TPG BIN 2X4
5	636 018 6859	HOLDER
6	636 000 1008	LENS
7	636 013 1484	BRACKET MTG ASSY
8	636 018 6842	HOLDER
9	636 019 0511	OPTICAL FILTER
or	636 019 0528	OPTICAL FILTER
or	636 019 0535	OPTICAL FILTER
10	636 014 0424	SPACER
11	409 173 2109	IC ICX024AK3-N
12	411 020 4006	SCR PAN PCS 2X5
13	636 018 7030	INSULATOR
14	636 024 1435	SHIELD PLATE
15	636 023 2280	CA1 ASSY

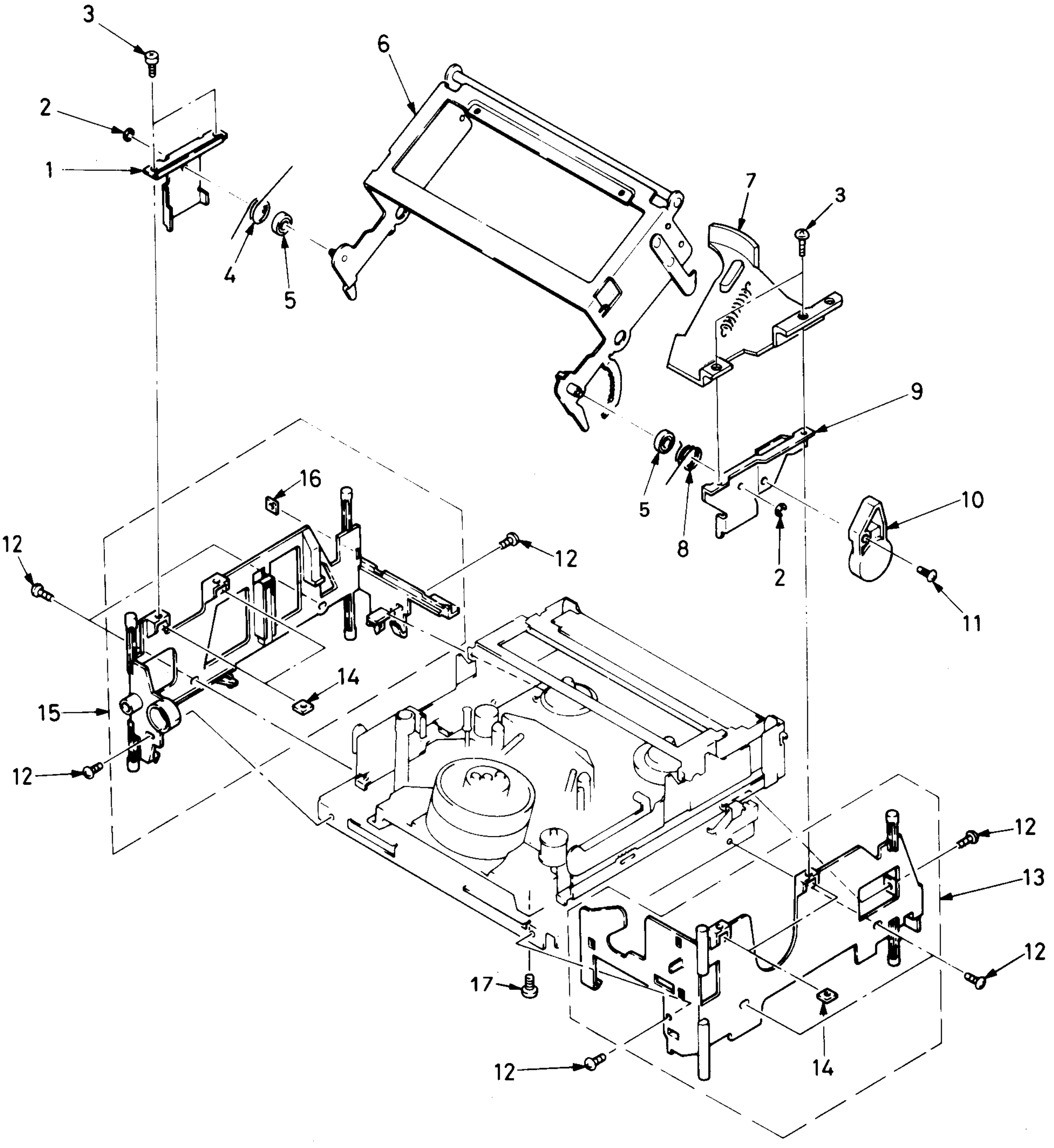
Ref. No.	Part No.	Description
16	411 030 4508	SCR BIN 2X14
17	636 021 4248	CA2 ASSY
18	636 013 8773	SHIELD PLATE
19	636 018 7009	INSULATOR
20	636 023 2297	CA3 ASSY
21	636 021 4262	CA4 ASSY
22	636 021 5948	FFC 75 11
23	636 021 4279	CA5 ASSY
24	636 013 8735	SHIELD PLATE
25	636 013 8742	SHIELD PLATE
26	636 013 4416	MOTOR, COVER
27	411 018 7408	SCR PAN PCS 2X4
28	636 018 7016	INSULATOR



CASSETTE MECHANISM PARTS

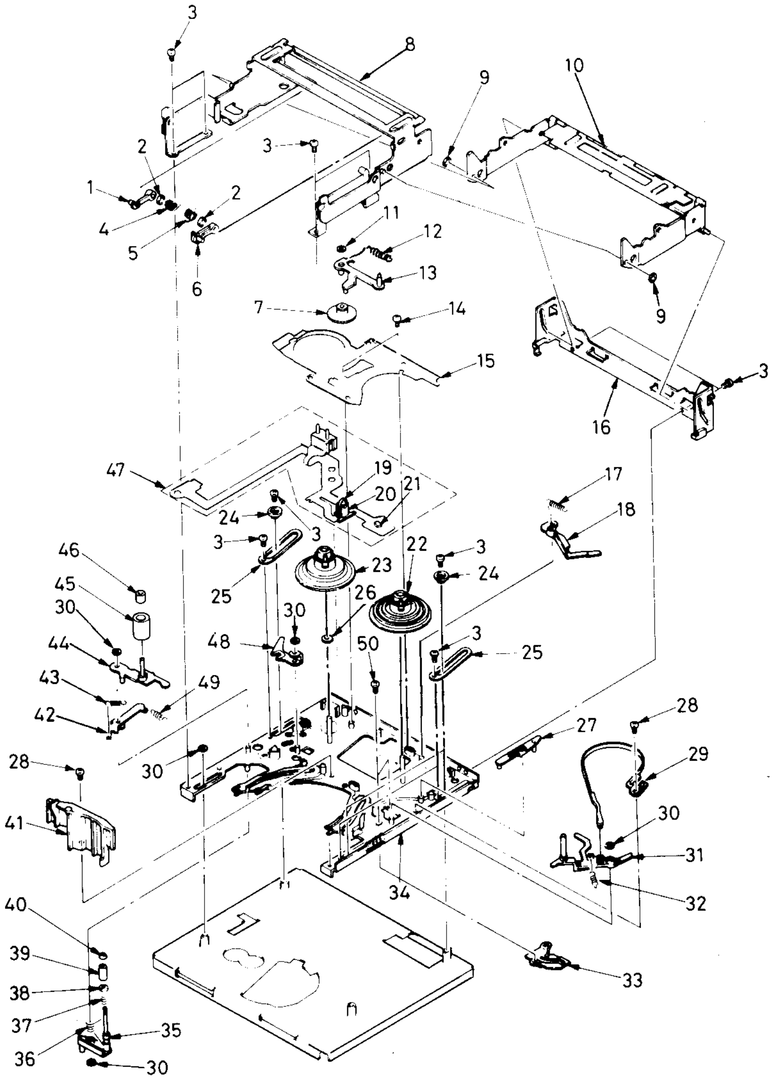
Ref. No.	Part No.	Description
1	636 021 8383	FRAME T2 (M)
2	636 021 8451	RING E 1.5
3	636 021 8413	SCREW M1.7
4	636 021 8291	SPRING,TORSION
5	636 021 8277	SLEEVE
6	636 021 8222	ARM ASSY (2),CASSETTE
7	636 021 8192	BRACKET ASSY
8	636 021 8284	SPRING,TORSION
9	636 021 8390	FRAME S2 (M)
10	636 021 8376	DAMPER
11	636 021 8406	SCREW

Ref. No.	Part No.	Description
12	636 021 8437	SCREW +P M1.7
13	636 021 8246	FRAME,ASSY,REAR
14	636 021 8352	SPECIAL NUT
15	636 021 8239	FRAME,ASSY,FRONT
16	636 021 8369	SPECIAL NUT
17	411 109 7508	SCREW 1.7X3



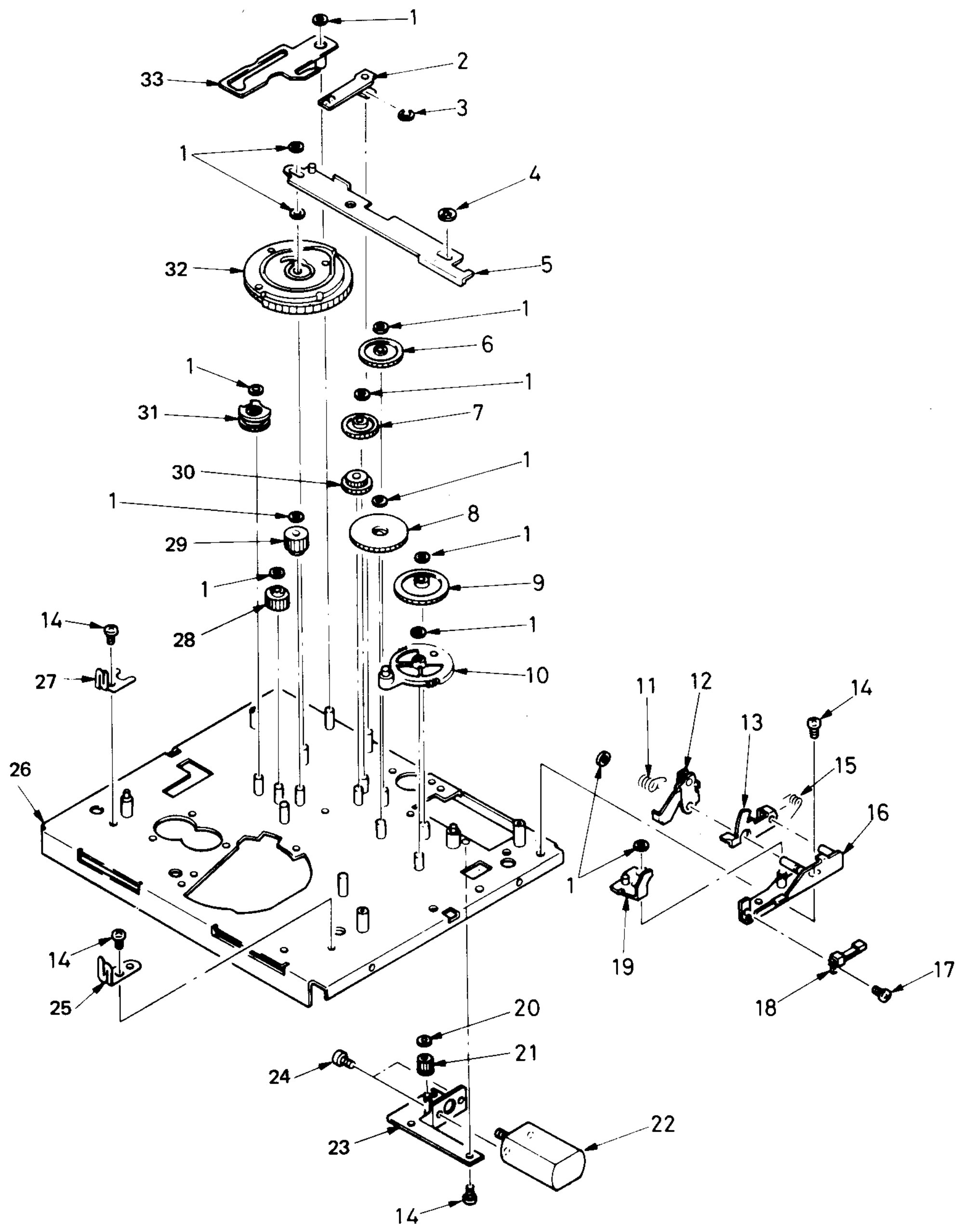
CHASSIS, REEL PARTS

Ref. No.	Part No.	Description
1	636 021 8314	RETAINER (T),CASSETTE
2	636 021 8444	RING E 1.2
3	636 021 9359	SCREW +P 1.4X2.2
4	636 021 8338	SPRING,TORSION
5	636 021 8321	SPRING,TORSION
6	636 021 8307	RETAINER (S),CASSETTE
7	636 021 8215	GEAR ASSY,TS
8	636 021 9502	COMPARTMENT ASSY,CASSETTE
9	636 021 8260	WASHER (1.5),STOPPER
10	636 021 8208	ARM ASSY,BLIND
11	636 021 8253	WASHER,STOPPER
12	636 021 8345	SPRING,TENSION
13	636 021 8802	LEVER (A) ASSY (2)
14	636 021 9199	SCREW (M1.3X5.5),TAPPING
15	636 021 9304	PLATE (2),STOPPER
16	636 021 9069	ARM,LS
17	636 021 8888	SPRING,TENSION
18	636 021 9229	BRAKE (2),SOFT
19	636 021 9410	GL452S
20	636 021 9311	LED HOLDER
21	636 021 9403	TLP907-0
22	636 021 8819	TABLE ASSY(2),REEL,SUPPLY
23	636 021 8611	TABLE ASSY,REEL,TAKE-UP
24	636 021 9090	GUIDE,LS
25	636 021 9083	SPRING,LEAF,LS
26	636 021 9205	WASHER,6
27	636 022 4308	ARM,TG1 RELEASE
28	636 021 9373	SCREW +P 1.4X2.5,TYPE3
29	636 021 8604	BAND ASSY,TG1
30	636 021 8444	RING E 1.2
31	636 021 8666	ARM ASSY (2),TG1
32	636 021 9014	SPRING,TENSION
33	636 021 9151	PLATE,CAM,LS
34	636 022 4292	CHASSIS ASSY (2),LS
35	636 021 8727	ARM ASSY (2),TG7
36	636 021 8932	SPRING
37	636 021 9243	SPRING,COMPRESSION
38	636 021 9267	FLANGE,LOWER,TG7
39	636 021 9274	SLEEVE (2),TG7
40	636 021 9250	FLANGE,UPPER,TG7
41	636 021 9038	BASE,PROTECT
42	636 021 8550	PINCH LEVER ASSY
43	636 021 9021	SPRING,TENSION
44	636 021 8772	ARM (C) ASSY (2),PINCH
45	636 021 8567	PINCH ROLLER ASSY
46	636 021 8970	SLEEVE (P),PINCH
47	636 021 8529	FP-53 BOARD,COMPLETE
48	636 021 8697	ARM (B) ASSY (2),PINCH
49	636 021 9137	SPRING,TENSION
50	636 021 9397	SCREW +P 1.7X1.8 TYPE3



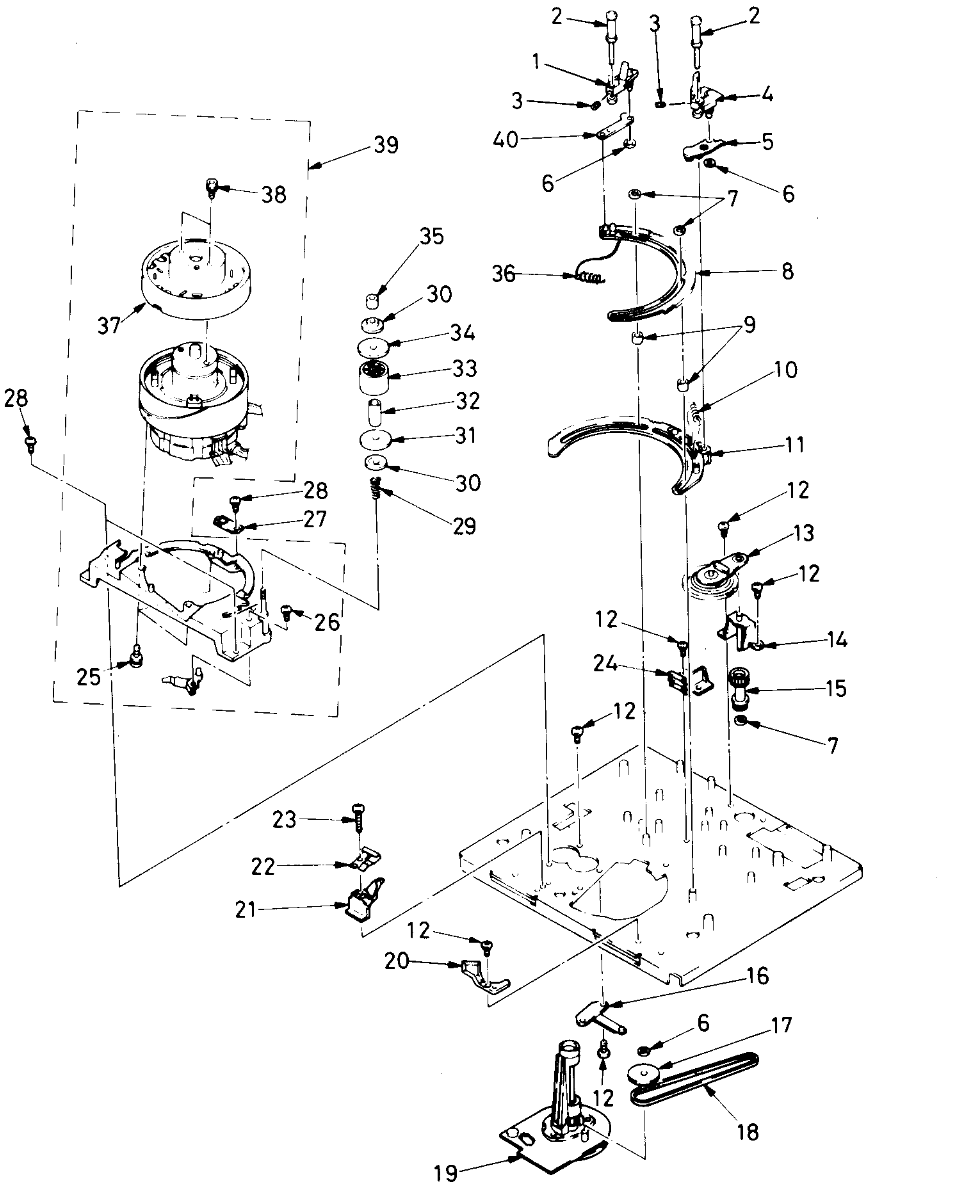
CHASSIS, MAIN PARTS

Ref. No.	Part No.	Description
1	636 021 8871	WASHER,STOPPER
2	636 021 9007	LEVER (B),REEL LOCK
3	636 021 8444	RING E 1.2
4	636 021 8260	WASHER (1.5),STOPPER
5	636 022 4285	SLIDER ASSY M
6	636 021 8956	GEAR (B),THREADING
7	636 021 9144	GEAR (D),THREADING
8	636 021 9120	GEAR (A),LS
9	636 021 8963	GEAR (B),LS
10	636 021 8574	GEAR (C) ASSY,LS
11	636 021 9328	SPRING (A) (2)
12	636 021 8581	ARM ASSY,LOCK
13	636 021 8987	ARM,RETURN PREVENTION
14	636 021 9366	SCREW +P 1.7X2.5
15	636 021 8994	SPRING (B),TORSION
16	636 021 8659	BASE ASSY (2),LOCK
17	636 021 9373	SCREW +P 1.4X2.5,TYPE3
18	636 021 8857	SWITCH,LEAF
19	636 021 8628	ARM ASSY,EJECT
20	636 021 8253	WASHER,STOPPER
21	636 021 9212	WHEEL,WORM
22	636 021 8840	MOTOR,DC (LOADING)
23	636 021 8642	HOLDER ASSY,MOTOR
24	636 021 9359	SCREW +P 1.4X2.2
25	636 021 9106	SPRING (S)
26	636 021 8796	CHASSIS ASSY (2),MECHA
27	636 021 9113	SPRING (T)
28	636 021 8918	GEAR (S),THREADING
29	636 021 8925	GEAR (T),THREADING
30	636 021 9281	GEAR (C) (2),THREADING
31	636 021 9236	GEAR (M) (2),THREADING
32	636 021 8765	CAM ASSY (2)
33	636 021 8703	ARM (A) ASSY (2),PINCH



CHASSIS, BASE PARTS

Ref. No.	Part No.	Description
1	636 021 8758	BASE ASSY (2),TG5
2	636 021 8741	ROLLER ASSY (2),GUIDE
3	636 021 9175	SCREW,GR LOCK
4	636 021 8734	BASE ASSY (2),TG4
5	636 021 8598	JOINT ASSY,S
6	636 021 8253	WASHER,STOPPER
7	636 021 8871	WASHER,STOPPER
8	636 021 8543	SLIDER (T) ASSY,THREADING
9	636 021 8949	ROLLER,GUIDE
10	636 021 9182	SPRING,TENSION
11	636 022 0782	SLIDER (S) ASSY,THREADING
12	636 021 9366	SCREW +P 1.7X2.5
13	636 021 8710	ARM ASSY (2),GEAR
14	636 021 8673	BASE ASSY (2)
15	636 021 8680	PULLEY ASSY (2),MIDWAY
16	636 021 8833	TERMINAL,SHAFT GROUND
17	636 021 8536	GEAR ASSY,CHANGE
18	636 022 0799	BELT,RELAY
19	636 021 9427	MOTOR,DC BHF-3301B
20	636 021 9045	STOPPER,SLIDER,S
21	636 021 9052	STOPPER,SLIDER,T
22	636 021 9076	SPRING (T),LEAF
23	636 021 8901	SCREW,FITTING,LEAF (T)
24	636 021 9298	SUPPORT (2),SLIDER
25	636 021 8895	SCREW
26	636 021 9373	SCREW +P 1.4X2.5,TYPE3
27	636 021 8864	SENSOR,DEW CONDENSATION
28	636 021 9380	SCREW +P 1.7X4,TYPE3
29	636 021 9557	SPRING,COMPRESSION
30	636 021 9571	RETAINER,FLANGE,UPPER
31	636 021 9595	FLANGE,LOWER,TG2
32	636 021 9540	SLEEVE,TG2
33	636 021 9601	ROLLER (2),TG2
34	636 021 9526	FLANGE,TG2
35	636 021 9533	NUT, TG2
36	636 021 9588	SPRING,TENSION
37	636 023 0743	ASSY,CYLINDER,UPPER
38	636 021 9519	SCREW (2X5),BOLT WASHER
39	636 023 0712	CYLINDER ASSY
40	636 021 9564	JOINT,T



ELECTRICAL PARTS

NOTE:

* Materials of Capacitors are abbreviated as follows;

ALUMINUM	Aluminum Electrolytic Capacitor
BC CON	Barrier Layer Ceramic Capacitor
CERAMIC	Ceramic Capacitor
EDL	Electric Double Layer Capacitor
ELECT	Electrolytic Capacitor
MYLAR	Mylar Film Capacitor
NON POLARIZED	Non Polarized Electrolytic Capacitor
POLYPRO	Polypropylene Capacitor

* Tolerance of Capacitor, Resistors and Other parts are noted with follow symboles;

A	+ 75 − 10%	M	±20%
F	±1%	N	±30%
G	±2%	P	+ 100 − 0%
J	±5%	Z	+ 80 − 20%
K	±10%		

VD1 BOARD

Location	Part No.	Description
		(MISCELLANEOUS)
	636 024 1602	INSULATOR, PRE-AMP
CN8501	636 001 9232	SOCKET, AV
	636 013 8674	SHIELD PLATE
	636 013 8711	SHIELD PLATE
	636 013 8728	SHIELD PLATE
		(COMPOSITE)
B1001	⚠ 636 000 0131	DC/DC CONVERTER
or	⚠ 636 000 0155	DC/DC CONVERTER
		(CAPACITORS)
C1001	403 149 7303	CERAMIC 0.47U Z 16V
C1002	403 068 0409	CERAMIC 0.1U Z 25V
C1003	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1004	403 149 7303	CERAMIC 0.47U Z 16V
C1005	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1006	403 068 0409	CERAMIC 0.1U Z 25V
C1007	403 134 7400	CERAMIC 1U Z 16V
C1008	403 140 6305	TA-SOLID 2.2U M 10V
or	403 114 5402	TA-SOLID 2.2U M 10V
C1009	403 068 0409	CERAMIC 0.1U Z 25V
C1010	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1011	403 038 6707	ELECT 220U M 6.3V
C1012	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1013	403 067 9304	CERAMIC 0.01U K 25V
C1014	403 149 7303	CERAMIC 0.47U Z 16V
C1015	403 067 9304	CERAMIC 0.01U K 25V
C1016	403 068 0409	CERAMIC 0.1U Z 25V
C1017	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C1018	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C1020	403 134 7400	CERAMIC 1U Z 16V
C1021	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1022	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1023	403 068 0409	CERAMIC 0.1U Z 25V
C1024	403 068 0409	CERAMIC 0.1U Z 25V
C1025	403 067 9304	CERAMIC 0.01U K 25V
C1026	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1027	403 067 9304	CERAMIC 0.01U K 25V
C1028	403 153 0901	ELECT 100U M 6.3V
C1029	403 008 7406	CERAMIC 10P D 50V
C1030	403 067 9304	CERAMIC 0.01U K 25V
C1031	403 134 7400	CERAMIC 1U Z 16V
C1101	403 134 7400	CERAMIC 1U Z 16V
C1102	403 134 7400	CERAMIC 1U Z 16V
C1103	403 134 7400	CERAMIC 1U Z 16V
C1104	403 134 7400	CERAMIC 1U Z 16V
C1105	403 067 9304	CERAMIC 0.01U K 25V
C1106	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1107	403 067 9304	CERAMIC 0.01U K 25V
C1108	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C1109	403 134 7400	CERAMIC 1U Z 16V
C1110	403 134 7400	CERAMIC 1U Z 16V
C1111	403 067 9304	CERAMIC 0.01U K 25V
C1112	403 140 5407	TA-SOLID 4.7U M 4V
or	403 089 6206	TA-SOLID 4.7U M 4V
C1113	403 067 9304	CERAMIC 0.01U K 25V
C1114	403 038 6707	ELECT 220U M 6.3V
C1115	403 134 7400	CERAMIC 1U Z 16V
C1116	403 067 9304	CERAMIC 0.01U K 25V
C1117	403 068 0409	CERAMIC 0.1U Z 25V
C1118	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1119	403 068 0409	CERAMIC 0.1U Z 25V
C1120	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C1121	403 134 7400	CERAMIC 1U Z 16V
C1201	403 009 5708	CERAMIC 100P J 50V
C1202	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1203	403 067 9304	CERAMIC 0.01U K 25V
C1204	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1205	403 067 9304	CERAMIC 0.01U K 25V
C1206	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1207	403 067 9304	CERAMIC 0.01U K 25V
C1208	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1209	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1210	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1211	403 067 9304	CERAMIC 0.01U K 25V
C1212	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1213	403 069 1702	CERAMIC 1000P K 50V
C1215	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1216	403 067 9304	CERAMIC 0.01U K 25V
C1217	403 018 0503	CERAMIC 22P J 50V
C1220	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1221	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1222	403 068 0409	CERAMIC 0.1U Z 25V
C1223	403 026 7501	CERAMIC 470P J 50V
C1224	403 024 7107	CERAMIC 390P J 50V

Location	Part No.	Description
C1225	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1227	403 024 2102	CERAMIC 39P J 50V
C1228	403 020 5503	CERAMIC 270P J 50V
C1229	403 068 0409	CERAMIC 0.1U Z 25V
C1230	403 068 0409	CERAMIC 0.1U Z 25V
C1231	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1232	403 068 0409	CERAMIC 0.1U Z 25V
C1234	403 067 9304	CERAMIC 0.01U K 25V
C1235	403 033 4500	CERAMIC 82P J 50V
C1236	403 033 4500	CERAMIC 82P J 50V
C1237	403 032 8608	CERAMIC 8P D 50V
C1238	403 067 9304	CERAMIC 0.01U K 25V
C1239	403 068 0409	CERAMIC 0.1U Z 25V
C1240	403 068 0409	CERAMIC 0.1U Z 25V
C1241	403 153 0901	ELECT 100U M 6.3V
C1242	403 134 7400	CERAMIC 1U Z 16V
C1243	403 018 7403	CERAMIC 220P J 50V
C1244	403 068 0409	CERAMIC 0.1U Z 25V
C1245	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1246	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C1247	403 067 9304	CERAMIC 0.01U K 25V
C1248	403 018 0503	CERAMIC 22P J 50V
C1249	403 033 4500	CERAMIC 82P J 50V
C1250	403 140 5407	TA-SOLID 4.7U M 4V
or	403 089 6206	TA-SOLID 4.7U M 4V
C1251	403 009 5708	CERAMIC 100P J 50V
C1252	403 028 4102	CERAMIC 56P J 50V
C1253	403 011 4904	CERAMIC 120P J 50V
C1254	403 008 7406	CERAMIC 10P D 50V
C1255	403 067 9304	CERAMIC 0.01U K 25V
C1256	403 014 3409	CERAMIC 18P J 50V
C1257	403 014 3409	CERAMIC 18P J 50V
C1258	403 068 0409	CERAMIC 0.1U Z 25V
C1301	403 068 0409	CERAMIC 0.1U Z 25V
C1302	403 068 0409	CERAMIC 0.1U Z 25V
C1303	403 068 0409	CERAMIC 0.1U Z 25V
C1304	403 068 0409	CERAMIC 0.1U Z 25V
C1306	403 067 9304	CERAMIC 0.01U K 25V
C1307	403 153 0901	ELECT 100U M 6.3V
C1308	403 068 0409	CERAMIC 0.1U Z 25V
C1309	403 071 8102	CERAMIC 2200P K 50V
C1310	403 022 8205	CERAMIC 33P J 50V
C1311	403 026 2803	CERAMIC 47P J 50V
C1312	403 009 5708	CERAMIC 100P J 50V
C1313	403 067 9304	CERAMIC 0.01U K 25V
C1314	403 032 2309	CERAMIC 75P J 50V
C1315	403 022 8205	CERAMIC 33P J 50V
C1316	403 020 5503	CERAMIC 270P J 50V
C1317	403 067 9304	CERAMIC 0.01U K 25V
C1318	403 067 9304	CERAMIC 0.01U K 25V
C1319	403 068 5107	CERAMIC 0.047U Z 25V
C1320	403 067 9304	CERAMIC 0.01U K 25V
C1321	403 067 9304	CERAMIC 0.01U K 25V
C1322	403 008 7406	CERAMIC 10P D 50V
C1323	403 067 9304	CERAMIC 0.01U K 25V
C1324	403 073 9107	CERAMIC 4700P K 50V
C1325	403 068 0409	CERAMIC 0.1U Z 25V
C1326	403 033 4500	CERAMIC 82P J 50V
C1327	403 026 2803	CERAMIC 47P J 50V
C1328	403 067 9304	CERAMIC 0.01U K 25V
C1329	403 025 8905	CERAMIC 43P J 50V
C1330	403 012 6808	CERAMIC 15P J 50V
C1331	403 067 9304	CERAMIC 0.01U K 25V
C1332	403 033 4500	CERAMIC 82P J 50V
C1333	403 014 9203	CERAMIC 180P J 50V
C1334	403 026 2803	CERAMIC 47P J 50V
C1335	403 070 8806	CERAMIC 1500P K 50V
C1336	403 018 0503	CERAMIC 22P J 50V
C1337	403 028 4102	CERAMIC 56P J 50V
C1338	403 010 1102	CERAMIC 1000P J 50V
C1339	403 026 7501	CERAMIC 470P J 50V
C1340	403 068 0409	CERAMIC 0.1U Z 25V
C1342	403 067 9304	CERAMIC 0.01U K 25V
C1401	403 067 9304	CERAMIC 0.01U K 25V
C1402	403 011 4904	CERAMIC 120P J 50V
C1403	403 028 4102	CERAMIC 56P J 50V
C1404	403 068 0409	CERAMIC 0.1U Z 25V
C1405	403 067 9304	CERAMIC 0.01U K 25V
C1501	403 067 9304	CERAMIC 0.01U K 25V
C1502	403 068 0409	CERAMIC 0.1U Z 25V
C1503	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1504	403 067 9304	CERAMIC 0.01U K 25V
C1505	403 068 0409	CERAMIC 0.1U Z 25V
C1506	403 067 9304	CERAMIC 0.01U K 25V
C1507	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1508	403 068 0409	CERAMIC 0.1U Z 25V
C1509	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1510	403 068 0409	CERAMIC 0.1U Z 25V
C1511	403 068 5107	CERAMIC 0.047U Z 25V
C1512	403 067 9304	CERAMIC 0.01U K 25V
C1513	403 067 9304	CERAMIC 0.01U K 25V
C1514	403 018 7403	CERAMIC 220P J 50V
C1516	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1517	403 068 0409	CERAMIC 0.1U Z 25V
C1518	403 068 0409	CERAMIC 0.1U Z 25V
C1519	403 067 9304	CERAMIC 0.01U K 25V
C1520	403 068 0409	CERAMIC 0.1U Z 25V
C1521	403 068 0409	CERAMIC 0.1U Z 25V
C1522	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C1523	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C1524	403 068 0409	CERAMIC 0.1U Z 25V
C1525	403 068 0409	CERAMIC 0.1U Z 25V
C1526	403 067 9304	CERAMIC 0.01U K 25V
C1527	403 068 0409	CERAMIC 0.1U Z 25V
C1528	403 068 0409	CERAMIC 0.1U Z 25V
C1529	403 067 9304	CERAMIC 0.01U K 25V
C1530	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1531	403 068 0409	CERAMIC 0.1U Z 25V
C1532	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1533	403 067 9304	CERAMIC 0.01U K 25V
C1534	403 067 9304	CERAMIC 0.01U K 25V
C1535	403 067 9304	CERAMIC 0.01U K 25V
C1539	403 068 0409	CERAMIC 0.1U Z 25V
C1540	403 134 7400	CERAMIC 1U Z 16V
C1541	403 068 0409	CERAMIC 0.1U Z 25V
C1542	403 134 7400	CERAMIC 1U Z 16V
C1543	403 011 4904	CERAMIC 120P J 50V
C1544	403 068 0409	CERAMIC 0.1U Z 25V
C1801	403 026 7501	CERAMIC 470P J 50V
C1802	403 067 9304	CERAMIC 0.01U K 25V
C1901	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1902	403 067 9304	CERAMIC 0.01U K 25V
C1903	403 010 5001	CERAMIC 110P J 50V
C1904	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C1905	403 069 1702	CERAMIC 1000P K 50V
C1906	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C1907	403 067 9304	CERAMIC 0.01U K 25V
C1908	403 069 1702	CERAMIC 1000P K 50V
C1909	403 024 7107	CERAMIC 390P J 50V
C1916	403 020 0409	CERAMIC 27P J 50V

Location	Part No.	Description
C1917	403 014 9203	CERAMIC 180P J 50V
C1918	403 020 0409	CERAMIC 27P J 50V
C1920	403 033 9000	CERAMIC 820P J 50V
C1921	403 023 4404	CERAMIC 330P J 50V
C1922	403 009 5708	CERAMIC 100P J 50V
C1923	403 067 9304	CERAMIC 0.01U K 25V
C1924	403 009 5708	CERAMIC 100P J 50V
C1925	403 008 7406	CERAMIC 10P D 50V
C1926	403 010 1102	CERAMIC 1000P J 50V
C2001	403 153 0901	ELECT 100U M 6.3V
C2002	403 153 1205	ELECT 47U M 16V
C2003	403 067 9304	CERAMIC 0.01U K 25V
C2004	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C2005	403 069 1702	CERAMIC 1000P K 50V
C2006	403 010 1102	CERAMIC 1000P J 50V
C2007	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C2008	403 140 5506	TA-SOLID 10U M 4V
or	403 089 4806	TA-SOLID 10U M 4V
C2009	403 153 0901	ELECT 100U M 6.3V
C2010	403 114 5501	TA-SOLID 15U M 6.3V
C2011	403 153 0901	ELECT 100U M 6.3V
C2012	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C2013	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C2014	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C2015	403 067 9809	CERAMIC 0.1U K 25V
		(DIODES)
D1001	407 004 0706	DIODE DCB015
or	407 004 0607	DIODE DCB010
D1002	407 004 8009	DIODE DSB015
D1003	407 004 0706	DIODE DCB015
or	407 004 0607	DIODE DCB010
D1004	407 057 8902	ZENER DIODE RD8.2MB2
D1005	407 057 8902	ZENER DIODE RD8.2MB2
D1006	407 004 8009	DIODE DSB015
D1201	407 004 8009	DIODE DSB015
D1202	407 004 8009	DIODE DSB015
D1203	407 004 0201	DIODE DCA015
or	407 004 0102	DIODE DCA010
D1301	407 012 7605	DIODE 1SS226-TE85L
D1801	407 057 8902	ZENER DIODE RD8.2MB2
D1802	407 057 8902	ZENER DIODE RD8.2MB2
D1803	407 057 8902	ZENER DIODE RD8.2MB2
D1804	407 057 8902	ZENER DIODE RD8.2MB2
D1805	407 057 8902	ZENER DIODE RD8.2MB2
D1806	407 057 8902	ZENER DIODE RD8.2MB2
D1807	407 057 8902	ZENER DIODE RD8.2MB2
D1808	407 057 8902	ZENER DIODE RD8.2MB2
D1809	407 057 8902	ZENER DIODE RD8.2MB2
D1810	407 057 8902	ZENER DIODE RD8.2MB2
D1811	407 054 5508	ZENER DIODE RD13MB1
D1812	407 057 8902	ZENER DIODE RD8.2MB2
D1813	407 054 5508	ZENER DIODE RD13MB1
D1902	407 004 8009	DIODE DSB015
D2001	407 057 8902	ZENER DIODE RD8.2MB2
D2002	407 057 8902	ZENER DIODE RD8.2MB2
D2005	407 012 7605	DIODE 1SS226-TE85L
D2006	407 004 0201	DIODE DCA015
or	407 004 0102	DIODE DCA010
		(INTEGRATED CIRCUITS)
IC1001	409 143 7608	IC CXA1201Q
IC1101	409 143 8100	IC CXL1502M-T1
IC1201	409 169 5701	IC CXA1200BQ
IC1501	409 000 7901	IC AN3313S-(T1)
IC1502	409 151 0707	IC AN6308S-(T1)
IC1503	409 143 7806	IC CXA1202Q-Z
IC1701	409 156 3901	IC JUA541
IC1901	409 143 7905	IC CXA1203M-T1
IC2001	409 132 7602	IC JU0336
		(COILS)
L1001	636 002 8852	RF CHOKE, 100UH
L1002	636 002 8852	RF CHOKE, 100UH
L1003	636 002 8852	RF CHOKE, 100UH
L1004	636 003 2507	HF CHOKE, 68UH
L1101	636 002 8852	RF CHOKE, 100UH
L1102	636 002 8869	RF CHOKE, 220UH
L1103	636 002 8852	RF CHOKE, 100UH
L1104	636 003 5379	CORE
L1105	636 003 5379	CORE
L1201	636 003 2408	HF CHOKE, 10UH
L1202	636 003 2460	HF CHOKE, 33UH
L1204	636 002 8852	RF CHOKE, 100UH
L1205	636 003 2149	HF CHOKE, 22UH
L1206	636 003 2361	HF CHOKE, 4.7UH
L1207	636 002 8852	RF CHOKE, 100UH
L1210	636 002 8852	RF CHOKE, 100UH
L1211	636 003 2514	HF CHOKE, 82UH
L1212	636 003 2392	HF CHOKE, 8.2UH
L1213	636 002 8852	RF CHOKE, 100UH
L1214	636 002 8869	RF CHOKE, 220UH
L1215	636 003 2507	HF CHOKE, 68UH
L1301	636 002 8852	RF CHOKE, 100UH
L1302	636 002 8852	RF CHOKE, 100UH
L1303	636 003 3207	HF CHOKE, 470UH
L1304	636 003 3184	HF CHOKE, 330UH
L1305	636 003 3184	HF CHOKE, 330UH
L1306	636 003 2361	HF CHOKE, 4.7UH
L1307	636 003 3184	HF CHOKE, 330UH
L1308	636 003 2552	HF CHOKE, 180UH
L1309	636 003 2507	HF CHOKE, 68UH
L1310	636 003 2521	HF CHOKE, 100UH
L1311	636 003 2545	HF CHOKE, 150UH
L1312	636 003 2392	HF CHOKE, 8.2UH
L1313	636 003 2538	HF CHOKE, 120UH
L1314	636 003 3184	HF CHOKE, 330UH
L1315	636 002 8852	RF CHOKE, 100UH
L1401	636 002 8869	RF CHOKE, 220UH
L1402	636 003 2392	HF CHOKE, 8.2UH
L1501	636 003 2101	HF CHOKE, 10UH
L1502	636 003 2101	HF CHOKE, 10UH
L1503	636 003 2101	HF CHOKE, 10UH
L1505	636 003 2149	HF CHOKE, 22UH
L1506	636 003 2101	HF CHOKE, 10UH
L1901	636 002 8852	RF CHOKE, 100UH
L1902	636 003 2491	HF CHOKE, 56UH
L1903	636 003 2392	HF CHOKE, 8.2UH
L1904	636 003 2491	HF CHOKE, 56UH
		(TRANSISTORS)
Q1001	405 002 6706	TR 2SA1179-M6
Q1003	405 002 6706	TR 2SA1179-M6
Q1005	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1006	405 008 7509	TR 2SB815-B6
Q1007	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1008	405 008 7509	TR 2SB815-B6
Q1009	405 002 6706	TR 2SA1179-M6
Q1010	405 074 0701	TR IMX2-109
Q1011	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1101	405 015 8704	TR 2SC2812-L6
Q1102	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1103	405 015 8704	TR 2SC2812-L6
Q1201	405 060 7202	TR FMA2-T99
Q1202	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6

Location	Part No.	Description
Q1203	405 003 7108	TR 2SA1341
Q1204	405 002 6706	TR 2SA1179-M6
Q1205	405 002 4108	TR 2SA1122-D
Q1206	405 002 6706	TR 2SA1179-M6
Q1207	405 018 2204	TR 2SC3397
Q1208	405 002 6706	TR 2SA1179-M6
Q1209	405 003 7108	TR 2SA1341
Q1210	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1211	405 002 6706	TR 2SA1179-M6
Q1212	405 060 7509	TR FMG2-T99
Q1213	405 002 6706	TR 2SA1179-M6
Q1214	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1215	405 018 1900	TR 2SC3395
Q1216	405 003 7108	TR 2SA1341
Q1301	405 015 8704	TR 2SC2812-L6
Q1302	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1303	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1304	405 015 8704	TR 2SC2812-L6
Q1305	405 015 8704	TR 2SC2812-L6
Q1306	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1307	405 015 8704	TR 2SC2812-L6
Q1308	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1309	405 015 8704	TR 2SC2812-L6
Q1310	405 002 6706	TR 2SA1179-M6
Q1311	405 015 8704	TR 2SC2812-L6
Q1312	405 015 8704	TR 2SC2812-L6
Q1313	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1314	405 002 6706	TR 2SA1179-M6
Q1315	405 002 6706	TR 2SA1179-M6
Q1316	405 015 8704	TR 2SC2812-L6
Q1317	405 003 7108	TR 2SA1341
Q1319	405 018 2204	TR 2SC3397
Q1401	405 002 6706	TR 2SA1179-M6
Q1402	405 002 6706	TR 2SA1179-M6
Q1501	405 060 7509	TR FMG2-T99
Q1502	405 018 2204	TR 2SC3397
Q1506	405 018 2204	TR 2SC3397
Q1507	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1801	405 060 6908	TR 2SA1202-O-TE85L
Q1802	405 002 6706	TR 2SA1179-M6
Q1803	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1902	405 015 8704	TR 2SC2812-L6
Q1908	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q1909	405 002 6706	TR 2SA1179-M6
Q1910	405 015 8407	TR 2SC2812-L5
Q1911	405 002 6706	TR 2SA1179-M6
Q1912	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q1913	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
Q2001	405 029 3207	TR DTC114TK-T96
Q2002	405 015 8902	TR 2SC2812-L7
Q2003	405 074 0602	TR IMZ1-109
Q2007	405 018 1900	TR 2SC3395
or	405 029 3504	TR DTC144EK-T96
		(RESISTORS)
R1001	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1002	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1003	401 038 4907	MT-GLAZE 39 JA 1/10W
R1004	401 038 4907	MT-GLAZE 39 JA 1/10W
R1005	401 037 5400	MT-GLAZE 1K JA 1/10W

Location	Part No.	Description
R1006	401 038 8905	MT-GLAZE 68 JA 1/10W
R1007	401 039 0908	MT-GLAZE 910 JA 1/10W
R1008	401 037 5400	MT-GLAZE 1K JA 1/10W
R1010	401 037 5707	MT-GLAZE 100K JA 1/10W
R1011	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1012	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1013	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1014	401 038 9001	MT-GLAZE 680 JA 1/10W
R1016	401 038 2200	MT-GLAZE 27K JA 1/10W
R1017	401 038 0800	MT-GLAZE 22K JA 1/10W
R1018	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1019	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1020	401 038 0800	MT-GLAZE 22K JA 1/10W
R1021	401 038 2200	MT-GLAZE 27K JA 1/10W
R1022	401 038 6505	MT-GLAZE 47K JA 1/10W
R1023	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1024	401 038 6505	MT-GLAZE 47K JA 1/10W
R1025	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1026	401 038 5003	MT-GLAZE 390 JA 1/10W
R1030	401 037 5608	MT-GLAZE 10K JA 1/10W
R1033	401 037 5608	MT-GLAZE 10K JA 1/10W
R1035	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1036	401 037 5608	MT-GLAZE 10K JA 1/10W
R1037	401 037 5400	MT-GLAZE 1K JA 1/10W
R1038	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1039	401 037 5400	MT-GLAZE 1K JA 1/10W
R1040	401 039 0304	MT-GLAZE 820 JA 1/10W
R1042	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1043	401 037 5608	MT-GLAZE 10K JA 1/10W
R1044	401 037 5806	MT-GLAZE 1M JA 1/10W
R1045	401 037 5608	MT-GLAZE 10K JA 1/10W
R1101	401 037 5806	MT-GLAZE 1M JA 1/10W
R1102	401 037 5806	MT-GLAZE 1M JA 1/10W
R1103	401 037 5806	MT-GLAZE 1M JA 1/10W
R1104	401 037 5400	MT-GLAZE 1K JA 1/10W
R1105	401 037 5400	MT-GLAZE 1K JA 1/10W
R1106	401 037 5202	MT-GLAZE 100 JA 1/10W
R1107	401 037 5400	MT-GLAZE 1K JA 1/10W
R1108	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1109	401 037 8005	MT-GLAZE 15K JA 1/10W
R1110	401 037 5608	MT-GLAZE 10K JA 1/10W
R1111	401 037 5806	MT-GLAZE 1M JA 1/10W
R1112	401 037 5202	MT-GLAZE 100 JA 1/10W
R1113	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1114	401 038 3504	MT-GLAZE 330 JA 1/10W
R1201	401 037 5400	MT-GLAZE 1K JA 1/10W
R1202	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1203	401 037 7008	MT-GLAZE 1.2M JA 1/10W
R1204	401 038 7809	MT-GLAZE 56K JA 1/10W
R1205	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1206	401 038 0800	MT-GLAZE 22K JA 1/10W
R1207	401 037 8005	MT-GLAZE 15K JA 1/10W
R1209	401 037 5608	MT-GLAZE 10K JA 1/10W
R1212	401 037 5400	MT-GLAZE 1K JA 1/10W
R1213	401 038 6307	MT-GLAZE 470 JA 1/10W
R1214	401 037 5400	MT-GLAZE 1K JA 1/10W
R1215	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1216	401 039 0304	MT-GLAZE 820 JA 1/10W
R1219	401 038 3504	MT-GLAZE 330 JA 1/10W
R1220	401 038 9001	MT-GLAZE 680 JA 1/10W
R1221	401 038 6307	MT-GLAZE 470 JA 1/10W
R1222	401 037 5400	MT-GLAZE 1K JA 1/10W
R1223	401 038 9001	MT-GLAZE 680 JA 1/10W
R1225	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1227	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1228	401 037 5400	MT-GLAZE 1K JA 1/10W
R1229	401 037 6803	MT-GLAZE 12K JA 1/10W
R1231	401 038 5003	MT-GLAZE 390 JA 1/10W
R1235	401 038 0800	MT-GLAZE 22K JA 1/10W
R1236	401 038 3702	MT-GLAZE 33K JA 1/10W
R1237	401 038 6109	MT-GLAZE 430K JA 1/10W
R1238	401 037 7305	MT-GLAZE 1.3K JA 1/10W
R1239	401 038 2101	MT-GLAZE 2.7K JA 1/10W

Location	Part No.	Description
R1240	401 038 9001	MT-GLAZE 680 JA 1/10W
R1241	401 038 9001	MT-GLAZE 680 JA 1/10W
R1242	401 037 5202	MT-GLAZE 100 JA 1/10W
R1243	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1245	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1246	401 037 9309	MT-GLAZE 18K JA 1/10W
R1247	401 038 7809	MT-GLAZE 56K JA 1/10W
R1248	401 038 0206	MT-GLAZE 20K JA 1/10W
R1251	401 038 5003	MT-GLAZE 390 JA 1/10W
R1252	401 038 0503	MT-GLAZE 22 JA 1/10W
R1253	401 038 5300	MT-GLAZE 39K JA 1/10W
R1254	401 038 0800	MT-GLAZE 22K JA 1/10W
R1255	401 038 2002	MT-GLAZE 270 JA 1/10W
R1256	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1301	401 037 5400	MT-GLAZE 1K JA 1/10W
R1302	401 038 9001	MT-GLAZE 680 JA 1/10W
R1303	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1306	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1307	401 037 5400	MT-GLAZE 1K JA 1/10W
R1308	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1309	401 038 7601	MT-GLAZE 560 JA 1/10W
R1310	401 038 3702	MT-GLAZE 33K JA 1/10W
R1311	401 037 8005	MT-GLAZE 15K JA 1/10W
R1312	401 038 0602	MT-GLAZE 220 JA 1/10W
R1313	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1314	401 037 5608	MT-GLAZE 10K JA 1/10W
R1315	401 037 5608	MT-GLAZE 10K JA 1/10W
R1316	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1317	401 037 5608	MT-GLAZE 10K JA 1/10W
R1318	401 037 5608	MT-GLAZE 10K JA 1/10W
R1319	401 037 5608	MT-GLAZE 10K JA 1/10W
R1320	401 037 8005	MT-GLAZE 15K JA 1/10W
R1321	401 037 8005	MT-GLAZE 15K JA 1/10W
R1322	401 037 5004	MT-GLAZE 0 ZA 1/10W
R1323	401 038 7601	MT-GLAZE 560 JA 1/10W
R1324	401 038 3504	MT-GLAZE 330 JA 1/10W
R1325	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1326	401 039 0304	MT-GLAZE 820 JA 1/10W
R1327	401 037 6803	MT-GLAZE 12K JA 1/10W
R1328	401 037 5608	MT-GLAZE 10K JA 1/10W
R1329	401 038 9001	MT-GLAZE 680 JA 1/10W
R1330	401 037 5400	MT-GLAZE 1K JA 1/10W
R1331	401 037 5400	MT-GLAZE 1K JA 1/10W
R1332	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1333	401 038 6307	MT-GLAZE 470 JA 1/10W
R1334	401 038 8905	MT-GLAZE 68 JA 1/10W
R1335	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1336	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1337	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1338	401 037 9309	MT-GLAZE 18K JA 1/10W
R1339	401 038 7601	MT-GLAZE 560 JA 1/10W
R1340	401 037 9309	MT-GLAZE 18K JA 1/10W
R1341	401 037 5400	MT-GLAZE 1K JA 1/10W
R1342	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1343	401 038 9001	MT-GLAZE 680 JA 1/10W
R1344	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1345	401 037 6803	MT-GLAZE 12K JA 1/10W
R1346	401 038 6505	MT-GLAZE 47K JA 1/10W
R1348	401 038 6307	MT-GLAZE 470 JA 1/10W
R1349	401 037 5202	MT-GLAZE 100 JA 1/10W
R1350	401 038 9001	MT-GLAZE 680 JA 1/10W
R1351	401 038 9001	MT-GLAZE 680 JA 1/10W
R1352	401 038 1401	MT-GLAZE 24K JA 1/10W
R1353	401 038 0800	MT-GLAZE 22K JA 1/10W
R1354	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1355	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1356	401 038 7601	MT-GLAZE 560 JA 1/10W
R1357	401 038 7601	MT-GLAZE 560 JA 1/10W
R1358	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1359	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1360	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1361	401 038 3603	MT-GLAZE 3.3K JA 1/10W

Location	Part No.	Description
R1362	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1363	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1364	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R1366	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1367	401 037 5707	MT-GLAZE 100K JA 1/10W
R1368	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1372	401 037 9309	MT-GLAZE 18K JA 1/10W
R1373	401 037 6803	MT-GLAZE 12K JA 1/10W
R1401	401 038 2200	MT-GLAZE 27K JA 1/10W
R1402	401 038 0800	MT-GLAZE 22K JA 1/10W
R1403	401 038 6307	MT-GLAZE 470 JA 1/10W
R1404	401 038 3504	MT-GLAZE 330 JA 1/10W
R1405	401 038 5508	MT-GLAZE 4.7 JA 1/10W
R1406	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1501	401 038 7908	MT-GLAZE 560K JA 1/10W
R1502	401 037 8104	MT-GLAZE 150K JA 1/10W
R1503	401 037 5707	MT-GLAZE 100K JA 1/10W
R1504	401 038 0800	MT-GLAZE 22K JA 1/10W
R1505	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1506	401 038 6505	MT-GLAZE 47K JA 1/10W
R1507	401 038 1401	MT-GLAZE 24K JA 1/10W
R1508	401 038 3702	MT-GLAZE 33K JA 1/10W
R1509	401 038 6505	MT-GLAZE 47K JA 1/10W
R1510	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1511	401 038 0800	MT-GLAZE 22K JA 1/10W
R1512	401 038 0800	MT-GLAZE 22K JA 1/10W
R1513	401 038 2200	MT-GLAZE 27K JA 1/10W
R1514	401 037 5608	MT-GLAZE 10K JA 1/10W
R1515	401 038 0800	MT-GLAZE 22K JA 1/10W
R1517	401 037 5400	MT-GLAZE 1K JA 1/10W
R1518	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1519	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1520	401 037 5608	MT-GLAZE 10K JA 1/10W
R1521	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1522	401 038 5300	MT-GLAZE 39K JA 1/10W
R1523	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1524	401 038 5300	MT-GLAZE 39K JA 1/10W
R1525	401 038 6307	MT-GLAZE 470 JA 1/10W
R1526	401 038 7601	MT-GLAZE 560 JA 1/10W
R1527	401 038 5003	MT-GLAZE 390 JA 1/10W
R1528	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1801	401 037 5608	MT-GLAZE 10K JA 1/10W
R1802	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1803	401 037 5608	MT-GLAZE 10K JA 1/10W
R1804	401 037 5400	MT-GLAZE 1K JA 1/10W
R1805	401 037 5400	MT-GLAZE 1K JA 1/10W
R1806	401 037 5400	MT-GLAZE 1K JA 1/10W
R1901	401 038 6307	MT-GLAZE 470 JA 1/10W
R1902	401 037 5608	MT-GLAZE 10K JA 1/10W
R1903	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1904	401 037 5400	MT-GLAZE 1K JA 1/10W
R1905	401 037 5707	MT-GLAZE 100K JA 1/10W
R1906	401 037 5707	MT-GLAZE 100K JA 1/10W
R1910	401 038 3702	MT-GLAZE 33K JA 1/10W
R1911	401 038 6505	MT-GLAZE 47K JA 1/10W
R1912	401 038 0800	MT-GLAZE 22K JA 1/10W
R1913	401 037 5400	MT-GLAZE 1K JA 1/10W
R1914	401 038 0800	MT-GLAZE 22K JA 1/10W
R1926	401 038 9001	MT-GLAZE 680 JA 1/10W
R1927	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1928	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1929	401 039 0908	MT-GLAZE 910 JA 1/10W
R1930	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1931	401 037 5400	MT-GLAZE 1K JA 1/10W
R1932	401 037 5608	MT-GLAZE 10K JA 1/10W
R1934	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1935	401 038 6505	MT-GLAZE 47K JA 1/10W
R1936	401 038 6505	MT-GLAZE 47K JA 1/10W
R1937	401 037 6803	MT-GLAZE 12K JA 1/10W
R1938	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1939	401 038 6505	MT-GLAZE 47K JA 1/10W
R1940	401 038 6505	MT-GLAZE 47K JA 1/10W
R1941	401 037 5608	MT-GLAZE 10K JA 1/10W

Location	Part No.	Description
R1942	401 038 0800	MT-GLAZE 22K JA 1/10W
R1943	401 037 5400	MT-GLAZE 1K JA 1/10W
R1944	401 037 5400	MT-GLAZE 1K JA 1/10W
R1945	401 142 6507	MT-GLAZE 10M KA 1/10W
R2001	401 038 6505	MT-GLAZE 47K JA 1/10W
R2002	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2003	401 038 6307	MT-GLAZE 470 JA 1/10W
R2004	401 037 5400	MT-GLAZE 1K JA 1/10W
R2005	401 037 5400	MT-GLAZE 1K JA 1/10W
R2006	401 037 5608	MT-GLAZE 10K JA 1/10W
R2007	401 037 5400	MT-GLAZE 1K JA 1/10W
R2008	401 037 5608	MT-GLAZE 10K JA 1/10W
R2009	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R2010	401 037 5608	MT-GLAZE 10K JA 1/10W
R2011	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R2012	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R2013	401 038 0503	MT-GLAZE 22 JA 1/10W
R2014	401 038 6307	MT-GLAZE 470 JA 1/10W
R2015	401 039 0304	MT-GLAZE 820 JA 1/10W
R2017	401 099 9606	MT-GLAZE 8.2 JA 1/10W
R2018	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R2021	401 037 5806	MT-GLAZE 1M JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR1001	636 000 2999	SEMI VR, 47K OHM
SVR1002	636 000 2852	SEMI VR, 220 OHM
SVR1201	636 000 2951	SEMI VR, 10K OHM
SVR1202	636 000 2920	SEMI VR, 3.3K OHM
SVR1203	636 000 2937	SEMI VR, 4.7K OHM
SVR1204	636 000 2913	SEMI VR, 2.2K OHM
SVR1206	636 000 2999	SEMI VR, 47K OHM
SVR1301	636 000 2920	SEMI VR, 3.3K OHM
SVR1302	636 000 2890	SEMI VR, 1K OHM
SVR1303	636 000 2937	SEMI VR, 4.7K OHM
SVR1304	636 000 2876	SEMI VR, 470 OHM
SVR1801	636 000 3996	SEMI VR, 100K OHM
SVR1802	636 000 2128	SEMI VR, 100K OHM
SVR1901	636 000 2975	SEMI VR, 22K OHM
SVR1902	636 000 2975	SEMI VR, 22K OHM
		(SWITCHES)
S1801	636 019 0320	SW,SLIDE
		(TRANSFORMERS)
T1201	636 023 4888	FILTER
T2001	636 003 6079	FILTER, 15MHZ
		(MISCELLANEOUS)
F1801	⚠ 636 000 0353	CIRCUIT PROTECTOR
X1201	636 019 4977	CRYSTAL, 4.433619MHZ
X1202	636 019 4946	FILTER

PW1 BOARD

Location	Part No.	Description
		(CAPACITORS)
C5001	403 044 1802	ELECT 470U M 16V
		(COILS)
L5001	636 003 3924	HF CHOKE
L5002	636 003 3924	HF CHOKE
L5003	636 003 3924	HF CHOKE
		(MISCELLANEOUS)
F5001	⚠ 4-234F-00700	FUSE, 3.15A
F5002	⚠ 636 000 0391	FUSE, 1.0A

SV1 BOARD

Location	Part No.	Description
		(CAPACITORS)
C3501	403 010 8507	CERAMIC 12P J 50V
C3502	403 010 8507	CERAMIC 12P J 50V
C3503	403 069 5601	CERAMIC 0.01U K 50V
C3504	403 119 6909	ELECT 22U M 6.3V
C3505	403 114 4504	ELECT 4.7U M 25V
C3506	403 134 7400	CERAMIC 1U Z 16V
C3507	403 134 7400	CERAMIC 1U Z 16V
C3508	403 134 7400	CERAMIC 1U Z 16V
C3509	403 068 5107	CERAMIC 0.047U Z 25V
C3510	403 134 7400	CERAMIC 1U Z 16V
C3511	403 105 9105	ELECT 10U M 16V
C3512	403 100 9704	CERAMIC 0.1U M 25V
C3513	403 042 3006	ELECT 100U M 16V
C3514	403 100 9704	CERAMIC 0.1U M 25V
C3515	403 121 6201	ELECT 82U M 10V
C3516	403 121 6201	ELECT 82U M 10V
C3517	403 100 9704	CERAMIC 0.1U M 25V
C3518	403 121 6201	ELECT 82U M 10V
C3519	403 068 2007	CERAMIC 0.022U K 25V
C3520	403 119 6909	ELECT 22U M 6.3V
C3521	403 134 7400	CERAMIC 1U Z 16V
C3522	403 069 5601	CERAMIC 0.01U K 50V
C3523	403 069 5601	CERAMIC 0.01U K 50V
C3524	403 114 4504	ELECT 4.7U M 25V
C3525	403 105 9105	ELECT 10U M 16V
C3526	403 105 9105	ELECT 10U M 16V
C3527	403 068 2007	CERAMIC 0.022U K 25V
C3528	403 073 9107	CERAMIC 4700P K 50V
C3529	403 068 2007	CERAMIC 0.022U K 25V
C3530	403 068 4407	CERAMIC 0.047U K 25V
C3531	403 114 4504	ELECT 4.7U M 25V
C3532	403 073 1200	CERAMIC 0.033U K 50V
C3533	403 068 2007	CERAMIC 0.022U K 25V
C3534	403 068 5107	CERAMIC 0.047U Z 25V
C3535	403 069 5601	CERAMIC 0.01U K 50V
C3536	403 073 9107	CERAMIC 4700P K 50V
C3538	403 134 7400	CERAMIC 1U Z 16V
C3539	403 069 5601	CERAMIC 0.01U K 50V
C3540	403 069 5601	CERAMIC 0.01U K 50V
C3541	403 134 7400	CERAMIC 1U Z 16V
C3542	403 069 1702	CERAMIC 1000P K 50V
C3543	403 100 9704	CERAMIC 0.1U M 25V
C3545	403 010 1201	CERAMIC 1000P J 50V
C3701	403 114 4504	ELECT 4.7U M 25V
C3702	403 069 5601	CERAMIC 0.01U K 50V
C3703	403 069 5601	CERAMIC 0.01U K 50V
C3704	403 114 4504	ELECT 4.7U M 25V
C3705	403 068 2007	CERAMIC 0.022U K 25V
C3706	403 068 2007	CERAMIC 0.022U K 25V
C3707	403 022 8205	CERAMIC 33P J 50V
C3708	403 022 8205	CERAMIC 33P J 50V
C3709	403 114 4504	ELECT 4.7U M 25V
C3710	403 134 7400	CERAMIC 1U Z 16V
C3711	403 114 3903	CERAMIC 0.22U Z 50V
C3712	403 105 9105	ELECT 10U M 16V
C3713	403 105 9105	ELECT 10U M 16V
C3714	403 068 4407	CERAMIC 0.047U K 25V
C3715	403 068 2007	CERAMIC 0.022U K 25V
C3716	403 068 4407	CERAMIC 0.047U K 25V
C3717	403 100 9704	CERAMIC 0.1U M 25V
C3718	403 134 7400	CERAMIC 1U Z 16V
C3719	403 075 0706	CERAMIC 6800P K 50V
C3720	403 033 9000	CERAMIC 820P J 50V
C3801	403 038 2105	ELECT 100U M 6.3V
C3802	403 038 2105	ELECT 100U M 6.3V
C3803	403 038 2105	ELECT 100U M 6.3V
C3804	403 134 7400	CERAMIC 1U Z 16V
C3805	403 134 7400	CERAMIC 1U Z 16V
C3806	403 069 5601	CERAMIC 0.01U K 50V
C3807	403 073 9107	CERAMIC 4700P K 50V
C3808	403 105 9105	ELECT 10U M 16V
C3809	403 134 7400	CERAMIC 1U Z 16V

Location	Part No.	Description
C3810	403 105 9105	ELECT 10U M 16V
C3811	403 114 4702	ELECT 3.3U M 50V
C3812	403 134 7400	CERAMIC 1U Z 16V
C3813	403 068 5107	CERAMIC 0.047U Z 25V
C3814	403 068 5107	CERAMIC 0.047U Z 25V
C3815	403 134 7400	CERAMIC 1U Z 16V
C3816	403 134 7400	CERAMIC 1U Z 16V
C3817	403 105 9105	ELECT 10U M 16V
C3818	403 069 5601	CERAMIC 0.01U K 50V
C3819	403 031 2201	CERAMIC 680P J 50V
C3820	403 158 8407	TA-SOLID 6.8U M 10V
		(DIODES)
D3501	407 004 0706	DIODE DCB015
D3502	636 000 0438	DIODE E10QS03
D3503	636 000 0438	DIODE E10QS03
D3504	407 004 0706	DIODE DCB015
D3505	407 004 1000	DIODE DCC010
D3506	407 004 1000	DIODE DCC010
D3507	407 057 8902	ZENER DIODE RD8.2MB2
D3801	636 000 0438	DIODE E10QS03
D3802	407 004 0706	DIODE DCB015
D3803	407 004 0706	DIODE DCB015
		(INTEGRATED CIRCUITS)
IC3501	410 060 9804	IC CXP80116-044Q
IC3502	409 018 4008	IC LA6393M-T1
IC3503	409 142 5902	IC PST529D-2
IC3504	409 111 7401	IC LVC550C
IC3505	409 018 3704	IC LA6358M-T1
IC3506	409 018 3704	IC LA6358M-T1
IC3507	409 018 3704	IC LA6358M-T1
IC3508	409 004 8607	IC CX20115-T1
IC3701	409 150 0500	IC CXA1204Q
IC3702	409 018 3704	IC LA6358M-T1
IC3801	409 004 7006	IC CX20036-T1
IC3802	409 004 8508	IC CX20114-T1
IC3803	409 111 8309	IC TA8401F
		(COILS)
L3501	636 002 8524	LF CHOKE, 100UH
L3502	636 002 8524	LF CHOKE, 100UH
L3503	636 002 8531	LF CHOKE, 200UH
L3504	636 002 9767	HF CHOKE, 100UH
L3505	636 002 8531	LF CHOKE, 200UH
L3701	636 002 8852	RF CHOKE, 100UH
L3702	636 002 8876	RF CHOKE, 330UH
		(TRANSISTORS)
Q3501	405 003 7405	TR 2SA1344
Q3502	405 003 7108	TR 2SA1341
Q3503	405 018 2402	TR 2SC3398
Q3504	405 003 7108	TR 2SA1341
Q3505	405 018 2402	TR 2SC3398
Q3506	405 047 9304	TR 2SB1205-S
Q3507	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3508	405 006 8904	TR 2SB1121-T-TD
Q3509	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3510	405 006 8904	TR 2SB1121-T-TD
Q3511	407 101 5802	PHOTO DIODE PT480FI
Q3512	405 035 1105	TR FMW1-T99
Q3513	407 101 5802	PHOTO DIODE PT480FI
Q3514	405 035 1105	TR FMW1-T99
Q3515	405 002 6706	TR 2SA1179-M6
Q3516	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3517	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3601	405 035 1105	TR FMW1-T99
Q3801	405 003 7306	TR 2SA1343

Location	Part No.	Description
Q3802	405 002 6706	TR 2SA1179-M6
Q3803	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3804	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3805	405 002 6706	TR 2SA1179-M6
Q3806	405 002 6706	TR 2SA1179-M6
Q3807	405 002 8304	TR 2SA1203-Y-TE12L
Q3808	405 002 8304	TR 2SA1203-Y-TE12L
		(RESISTORS)
R3501	401 037 5707	MT-GLAZE 100K JA 1/10W
R3502	401 037 5608	MT-GLAZE 10K JA 1/10W
R3503	401 037 5608	MT-GLAZE 10K JA 1/10W
R3505	401 037 5608	MT-GLAZE 10K JA 1/10W
R3506	401 037 5608	MT-GLAZE 10K JA 1/10W
R3507	401 037 5707	MT-GLAZE 100K JA 1/10W
R3508	401 037 5608	MT-GLAZE 10K JA 1/10W
R3509	401 037 5608	MT-GLAZE 10K JA 1/10W
R3510	401 037 5608	MT-GLAZE 10K JA 1/10W
R3511	401 037 5707	MT-GLAZE 100K JA 1/10W
R3512	401 037 5608	MT-GLAZE 10K JA 1/10W
R3513	401 037 5202	MT-GLAZE 100 JA 1/10W
R3514	401 037 5707	MT-GLAZE 100K JA 1/10W
R3515	401 037 5707	MT-GLAZE 100K JA 1/10W
R3516	401 037 5707	MT-GLAZE 100K JA 1/10W
R3517	401 038 2309	MT-GLAZE 270K JA 1/10W
R3518	401 037 5707	MT-GLAZE 100K JA 1/10W
R3519	401 038 0602	MT-GLAZE 220 JA 1/10W
R3520	401 037 5608	MT-GLAZE 10K JA 1/10W
R3521	401 037 5707	MT-GLAZE 100K JA 1/10W
R3522	401 038 5409	MT-GLAZE 390K JA 1/10W
R3523	401 038 5409	MT-GLAZE 390K JA 1/10W
R3524	401 037 5707	MT-GLAZE 100K JA 1/10W
R3525	401 038 5409	MT-GLAZE 390K JA 1/10W
R3526	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R3527	401 037 5608	MT-GLAZE 10K JA 1/10W
R3528	401 038 5409	MT-GLAZE 390K JA 1/10W
R3529	401 037 5707	MT-GLAZE 100K JA 1/10W
R3530	401 037 5707	MT-GLAZE 100K JA 1/10W
R3531	401 038 5409	MT-GLAZE 390K JA 1/10W
R3532	401 038 5409	MT-GLAZE 390K JA 1/10W
R3533	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R3534	401 037 8104	MT-GLAZE 150K JA 1/10W
R3535	401 038 9308	MT-GLAZE 68K JA 1/10W
R3537	401 038 9308	MT-GLAZE 68K JA 1/10W
R3538	401 038 5300	MT-GLAZE 39K JA 1/10W
R3539	401 038 5300	MT-GLAZE 39K JA 1/10W
R3540	401 038 6505	MT-GLAZE 47K JA 1/10W
R3541	401 037 5608	MT-GLAZE 10K JA 1/10W
R3542	401 037 9309	MT-GLAZE 18K JA 1/10W
R3543	401 038 3702	MT-GLAZE 33K JA 1/10W
R3544	401 037 5608	MT-GLAZE 10K JA 1/10W
R3547	401 037 5608	MT-GLAZE 10K JA 1/10W
R3549	401 038 6307	MT-GLAZE 470 JA 1/10W
R3550	401 037 5400	MT-GLAZE 1K JA 1/10W
R3551	401 037 5400	MT-GLAZE 1K JA 1/10W
R3552	401 037 1907	MT-GLAZE 680 JA 1/8W
R3553	401 037 1907	MT-GLAZE 680 JA 1/8W
R3554	401 037 1907	MT-GLAZE 680 JA 1/8W
R3555	401 037 5608	MT-GLAZE 10K JA 1/10W
R3556	401 037 5608	MT-GLAZE 10K JA 1/10W
R3557	401 037 5400	MT-GLAZE 1K JA 1/10W
R3558	401 038 6307	MT-GLAZE 470 JA 1/10W
R3559	401 037 5202	MT-GLAZE 100 JA 1/10W
R3560	401 038 0800	MT-GLAZE 22K JA 1/10W
R3561	401 038 0800	MT-GLAZE 22K JA 1/10W
R3562	401 038 6604	MT-GLAZE 470K JA 1/10W
R3563	401 037 5608	MT-GLAZE 10K JA 1/10W
R3564	401 037 5608	MT-GLAZE 10K JA 1/10W
R3565	401 037 5608	MT-GLAZE 10K JA 1/10W
R3567	401 037 5608	MT-GLAZE 10K JA 1/10W
R3568	401 037 5608	MT-GLAZE 10K JA 1/10W

Location	Part No.	Description
R3569	401 037 8104	MT-GLAZE 150K JA 1/10W
R3570	401 038 0800	MT-GLAZE 22K JA 1/10W
R3571	401 037 5608	MT-GLAZE 10K JA 1/10W
R3572	401 038 9902	MT-GLAZE 750K JA 1/10W
R3573	401 038 6604	MT-GLAZE 470K JA 1/10W
R3574	401 038 9902	MT-GLAZE 750K JA 1/10W
R3575	401 038 6604	MT-GLAZE 470K JA 1/10W
R3576	401 038 6109	MT-GLAZE 430K JA 1/10W
R3577	401 038 0909	MT-GLAZE 220K JA 1/10W
R3578	401 038 6505	MT-GLAZE 47K JA 1/10W
R3579	401 037 5707	MT-GLAZE 100K JA 1/10W
R3580	401 038 6604	MT-GLAZE 470K JA 1/10W
R3581	401 037 5608	MT-GLAZE 10K JA 1/10W
R3582	401 037 5707	MT-GLAZE 100K JA 1/10W
R3583	401 038 6505	MT-GLAZE 47K JA 1/10W
R3584	401 037 5707	MT-GLAZE 100K JA 1/10W
R3585	401 038 6604	MT-GLAZE 470K JA 1/10W
R3586	401 037 5608	MT-GLAZE 10K JA 1/10W
R3587	401 037 5707	MT-GLAZE 100K JA 1/10W
R3588	401 038 7601	MT-GLAZE 560 JA 1/10W
R3589	401 037 6902	MT-GLAZE 120K JA 1/10W
R3590	401 037 6902	MT-GLAZE 120K JA 1/10W
R3591	401 037 5608	MT-GLAZE 10K JA 1/10W
R3594	401 038 6208	MT-GLAZE 47 JA 1/10W
R3597	401 037 5202	MT-GLAZE 100 JA 1/10W
R3598	401 037 5608	MT-GLAZE 10K JA 1/10W
R3599	401 038 0602	MT-GLAZE 220 JA 1/10W
R3601	401 038 0909	MT-GLAZE 220K JA 1/10W
R3602	401 038 0909	MT-GLAZE 220K JA 1/10W
R3603	401 038 0909	MT-GLAZE 220K JA 1/10W
R3604	401 038 0800	MT-GLAZE 22K JA 1/10W
R3605	401 038 0800	MT-GLAZE 22K JA 1/10W
R3606	401 038 0800	MT-GLAZE 22K JA 1/10W
R3607	401 037 5608	MT-GLAZE 10K JA 1/10W
R3701	401 037 5608	MT-GLAZE 10K JA 1/10W
R3702	401 038 9407	MT-GLAZE 680K JA 1/10W
R3703	401 037 5608	MT-GLAZE 10K JA 1/10W
R3704	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3705	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3706	401 037 5608	MT-GLAZE 10K JA 1/10W
R3707	401 037 5608	MT-GLAZE 10K JA 1/10W
R3708	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R3709	401 037 5806	MT-GLAZE 1M JA 1/10W
R3710	401 037 5400	MT-GLAZE 1K JA 1/10W
R3711	401 038 0909	MT-GLAZE 220K JA 1/10W
R3712	401 037 5608	MT-GLAZE 10K JA 1/10W
R3713	401 038 6505	MT-GLAZE 47K JA 1/10W
R3714	401 037 5608	MT-GLAZE 10K JA 1/10W
R3715	401 037 5707	MT-GLAZE 100K JA 1/10W
R3716	401 038 7205	MT-GLAZE 5.1K JA 1/10W
R3717	401 037 5707	MT-GLAZE 100K JA 1/10W
R3718	401 037 5608	MT-GLAZE 10K JA 1/10W
R3719	401 037 5707	MT-GLAZE 100K JA 1/10W
R3720	401 037 8104	MT-GLAZE 150K JA 1/10W
R3721	401 037 8104	MT-GLAZE 150K JA 1/10W
R3722	401 038 5003	MT-GLAZE 390 JA 1/10W
R3723	401 037 5608	MT-GLAZE 10K JA 1/10W
R3727	401 037 5004	MT-GLAZE 0 ZA 1/10W
R3728	401 037 5004	MT-GLAZE 0 ZA 1/10W
R3730	401 037 5707	MT-GLAZE 100K JA 1/10W
R3731	401 038 0909	MT-GLAZE 220K JA 1/10W
R3732	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3733	401 037 5707	MT-GLAZE 100K JA 1/10W
R3734	401 038 0909	MT-GLAZE 220K JA 1/10W
R3735	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3801	401 037 6902	MT-GLAZE 120K JA 1/10W
R3802	401 037 8005	MT-GLAZE 15K JA 1/10W
R3803	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3804	401 040 9600	MT-FILM 0.22 FD 1/4W
R3805	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R3806	401 037 8005	MT-GLAZE 15K JA 1/10W
R3807	401 038 2507	MT-GLAZE 3.3 JA 1/10W

Location	Part No.	Description
R3808	401 038 2507	MT-GLAZE 3.3 JA 1/10W
R3809	401 038 2507	MT-GLAZE 3.3 JA 1/10W
R3810	401 037 6803	MT-GLAZE 12K JA 1/10W
R3811	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3812	401 037 8005	MT-GLAZE 15K JA 1/10W
R3814	401 038 6604	MT-GLAZE 470K JA 1/10W
R3815	401 037 5608	MT-GLAZE 10K JA 1/10W
R3816	401 037 8005	MT-GLAZE 15K JA 1/10W
R3817	401 037 5400	MT-GLAZE 1K JA 1/10W
R3818	401 037 8104	MT-GLAZE 150K JA 1/10W
R3819	401 037 5202	MT-GLAZE 100 JA 1/10W
R3820	401 038 3702	MT-GLAZE 33K JA 1/10W
R3821	401 038 0800	MT-GLAZE 22K JA 1/10W
R3822	401 039 0304	MT-GLAZE 820 JA 1/10W
R3823	401 038 6505	MT-GLAZE 47K JA 1/10W
R3824	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3825	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3827	401 037 5400	MT-GLAZE 1K JA 1/10W
R3828	401 038 6307	MT-GLAZE 470 JA 1/10W
R3830	401 037 6902	MT-GLAZE 120K JA 1/10W
R3831	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3832	401 037 8005	MT-GLAZE 15K JA 1/10W
R3833	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3834	401 037 5707	MT-GLAZE 100K JA 1/10W
R3835	401 037 5400	MT-GLAZE 1K JA 1/10W
R3836	401 037 5707	MT-GLAZE 100K JA 1/10W
R3837	401 037 5400	MT-GLAZE 1K JA 1/10W
R3838	401 037 5103	MT-GLAZE 10 JA 1/10W
R3839	401 037 5608	MT-GLAZE 10K JA 1/10W
R3840	401 038 6505	MT-GLAZE 47K JA 1/10W
R3841	401 038 2101	MT-GLAZE 2.7K JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR3501	636 000 2951	SEMI VR, 10K OHM
SVR3503	636 000 2975	SEMI VR , 22K OHM
SVR3504	636 000 2975	SEMI VR, 22K OHM
		(MISCELLANEOUS)
F3501	⚠ 636 000 0360	CIRCUIT PROTECTOR
F3502	⚠ 636 000 0391	FUSE, 1.0A
X3501	636 000 4948	CRYSTAL, 16MHZ
X3701	636 000 4917	CRYSTAL

SY1 BOARD

Location	Part No.	Description
		(CAPACITORS)
C3001	403 068 0409	CERAMIC 0.1U Z 25V
C3002	403 114 4504	ELECT 4.7U M 25V
C3003	403 068 0409	CERAMIC 0.1U Z 25V
C3005	403 069 5601	CERAMIC 0.01U K 50V
C3006	403 149 7303	CERAMIC 0.47U Z 16V
C3007	403 069 5601	CERAMIC 0.01U K 50V
C3008	403 068 0409	CERAMIC 0.1U Z 25V
C3009	403 069 5601	CERAMIC 0.01U K 50V
		(DIODES)
D3001	407 004 0201	DIODE DCA015
D3002	407 004 0201	DIODE DCA015
D3003	407 004 0201	DIODE DCA015
D3004	407 004 0201	DIODE DCA015
D3005	407 004 0201	DIODE DCA015
D3006	407 004 0201	DIODE DCA015
D3007	407 004 0201	DIODE DCA015
D3008	407 101 5703	LED BR2202S-B1
D3009	407 101 5703	LED BR2202S-B1
D3010	407 004 0201	DIODE DCA015

Location	Part No.	Description
D3011	407 057 8902	ZENER DIODE RD8.2MB2
D3012	407 057 8902	ZENER DIODE RD8.2MB2
D3013	407 057 8902	ZENER DIODE RD8.2MB2
D3014	407 057 8902	ZENER DIODE RD8.2MB2
		(INTEGRATED CIRCUITS)
IC3001	409 143 6304	IC NJM022M(T1)
		(TRANSISTORS)
Q3001	405 018 1900	TR 2SC3395
Q3003	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3004	405 018 1900	TR 2SC3395
Q3005	405 018 1900	TR 2SC3395
Q3006	405 018 1900	TR 2SC3395
Q3007	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3008	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3009	405 027 1403	TR 2SK303-V3
or	405 045 5407	TR 2SK303-V4
Q3010	405 061 4101	TR 2SA1434
		(RESISTORS)
R3001	401 038 6505	MT-GLAZE 47K JA 1/10W
R3002	401 038 6505	MT-GLAZE 47K JA 1/10W
R3003	401 038 6307	MT-GLAZE 470 JA 1/10W
R3004	401 037 5707	MT-GLAZE 100K JA 1/10W
R3005	401 038 6307	MT-GLAZE 470 JA 1/10W
R3006	401 037 6902	MT-GLAZE 120K JA 1/10W
R3007	401 037 9408	MT-GLAZE 180K JA 1/10W
R3008	401 037 5707	MT-GLAZE 100K JA 1/10W
R3009	401 037 9408	MT-GLAZE 180K JA 1/10W
R3010	401 037 9408	MT-GLAZE 180K JA 1/10W
R3011	401 038 1005	MT-GLAZE 2.2M JA 1/10W
R3012	401 038 6505	MT-GLAZE 47K JA 1/10W
R3013	401 037 5103	MT-GLAZE 10 JA 1/10W
R3015	401 037 5608	MT-GLAZE 10K JA 1/10W
R3016	401 038 5300	MT-GLAZE 39K JA 1/10W
R3017	401 038 5300	MT-GLAZE 39K JA 1/10W
R3018	401 038 6505	MT-GLAZE 47K JA 1/10W
R3019	401 037 5707	MT-GLAZE 100K JA 1/10W
R3020	401 038 6505	MT-GLAZE 47K JA 1/10W
R3021	401 037 5806	MT-GLAZE 1M JA 1/10W
R3022	401 037 5400	MT-GLAZE 1K JA 1/10W
R3023	401 037 5806	MT-GLAZE 1M JA 1/10W
R3024	401 037 5707	MT-GLAZE 100K JA 1/10W
R3025	401 037 5806	MT-GLAZE 1M JA 1/10W
R3026	401 037 5400	MT-GLAZE 1K JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR3001	636 000 2975	SEMI VR, 22K OHM
		(SWITCHES)
S3001	636 000 8571	PUSH SWITCH
S3002	636 000 8571	PUSH SWITCH
S3003	636 000 8571	PUSH SWITCH
S3004	636 000 8571	PUSH SWITCH
S3005	636 000 8571	PUSH SWITCH
S3006	636 000 8571	PUSH SWITCH
S3007	636 000 8571	PUSH SWITCH
S3008	636 000 8571	PUSH SWITCH
S3009	636 019 0313	SW,SLIDE

SY2 BOARD

Location	Part No.	Description
		(CAPACITORS)
C3201	403 090 4307	TA-SOLID 10U M 10V
C3202	403 105 9204	ELECT 47U M 16V
C3204	403 022 8205	CERAMIC 33P J 50V
C3205	403 018 7403	CERAMIC 220P J 50V
C3206	403 018 7403	CERAMIC 220P J 50V
C3210	403 067 9304	CERAMIC 0.01U K 25V
C3211	403 020 0409	CERAMIC 27P J 50V
C3221	403 069 5601	CERAMIC 0.01U K 50V
C3222	403 149 7303	CERAMIC 0.47U Z 16V
C3223	403 069 1702	CERAMIC 1000P K 50V
C3236	403 149 7709	CERAMIC 2200P J 50V
C3237	403 134 7400	CERAMIC 1U Z 16V
C3238	403 068 2007	CERAMIC 0.022U K 25V
C3239	403 068 5107	CERAMIC 0.047U Z 25V
C3240	403 149 7303	CERAMIC 0.47U Z 16V
C3242	403 009 5708	CERAMIC 100P J 50V
C3243	403 068 5107	CERAMIC 0.047U Z 25V
C3250	403 134 7400	CERAMIC 1U Z 16V
C3252	403 009 5708	CERAMIC 100P J 50V
C3253	403 009 5708	CERAMIC 100P J 50V
C3254	403 009 5708	CERAMIC 100P J 50V
		(DIODES)
D3201	407 004 0201	DIODE DCA015
D3202	407 004 0201	DIODE DCA015
D3203	407 004 0201	DIODE DCA015
D3220	407 057 8902	ZENER DIODE RD8.2MB2
D3221	407 057 8902	ZENER DIODE RD8.2MB2
D3222	407 057 8902	ZENER DIODE RD8.2MB2
D3223	407 057 8902	ZENER DIODE RD8.2MB2
D3224	407 057 8902	ZENER DIODE RD8.2MB2
D3225	407 057 8902	ZENER DIODE RD8.2MB2
D3226	407 057 8902	ZENER DIODE RD8.2MB2
D3227	407 004 0201	DIODE DCA015
D3228	407 057 8902	ZENER DIODE RD8.2MB2
D3229	407 057 8902	ZENER DIODE RD8.2MB2
D3230	407 101 5703	LED BR2202S-B1
D3231	407 050 7308	ZENER DIODE GZA8.2Y
D3232	407 050 7308	ZENER DIODE GZA8.2Y
		(INTEGRATED CIRCUITS)
IC3201	410 047 9704	IC UPD75306GF-023-3B9
IC3202	409 142 5803	IC UPD6145G-101-T1
IC3203	409 142 6008	IC BA7135F-T1
		(COILS)
L3201	636 002 8876	RF CHOKE, 330UH
L3202	636 002 9101	HF CHOKE, 39UH
		(TRANSISTORS)
Q3221	405 018 1900	TR 2SC3395
Q3222	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3223	405 018 2402	TR 2SC3398
Q3224	405 018 1900	TR 2SC3395
Q3225	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3226	405 015 8407	TR 2SC2812-L5
or	405 015 8704	TR 2SC2812-L6
Q3227	405 018 1900	TR 2SC3395
Q3228	405 003 7405	TR 2SA1344
		(RESISTORS)
R3202	401 037 5707	MT-GLAZE 100K JA 1/10W
R3203	401 037 8104	MT-GLAZE 150K JA 1/10W
R3204	401 037 5608	MT-GLAZE 10K JA 1/10W
R3205	401 037 5608	MT-GLAZE 10K JA 1/10W
R3206	401 037 5608	MT-GLAZE 10K JA 1/10W
R3207	401 037 5400	MT-GLAZE 1K JA 1/10W
R3208	401 037 8005	MT-GLAZE 15K JA 1/10W
R3210	401 038 3801	MT-GLAZE 330K JA 1/10W
R3222	401 037 5608	MT-GLAZE 10K JA 1/10W

Location	Part No.	Description
R3223	401 038 0909	MT-GLAZE 220K JA 1/10W
R3224	401 037 5608	MT-GLAZE 10K JA 1/10W
R3225	401 037 5608	MT-GLAZE 10K JA 1/10W
R3226	401 037 5608	MT-GLAZE 10K JA 1/10W
R3230	401 038 6307	MT-GLAZE 470 JA 1/10W
R3231	401 037 6803	MT-GLAZE 12K JA 1/10W
R3232	401 037 5608	MT-GLAZE 10K JA 1/10W
R3235	401 037 9309	MT-GLAZE 18K JA 1/10W
R3236	401 038 0800	MT-GLAZE 22K JA 1/10W
R3237	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3242	401 038 0909	MT-GLAZE 220K JA 1/10W
R3243	401 037 5400	MT-GLAZE 1K JA 1/10W
R3244	401 037 5400	MT-GLAZE 1K JA 1/10W
R3246	401 037 5707	MT-GLAZE 100K JA 1/10W
R3250	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3252	401 038 5300	MT-GLAZE 39K JA 1/10W
R3254	401 038 6505	MT-GLAZE 47K JA 1/10W
R3255	401 037 5707	MT-GLAZE 100K JA 1/10W
R3256	401 037 5608	MT-GLAZE 10K JA 1/10W
R3260	401 037 5400	MT-GLAZE 1K JA 1/10W
R3261	401 037 5400	MT-GLAZE 1K JA 1/10W
R3262	401 037 5004	MT-GLAZE 0 ZA 1/10W
R3263	401 038 6307	MT-GLAZE 470 JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR3201	636 000 2975	SEMI VR, 22K OHM
		(SWITCHES)
S3201	636 019 0313	SW,SLIDE
S3202	636 000 8571	PUSH SWITCH
S3203	636 000 8571	PUSH SWITCH
S3205	636 000 8571	PUSH SWITCH
S3206	636 000 8571	PUSH SWITCH
S3207	636 000 8571	PUSH SWITCH
S3208	636 000 8571	PUSH SWITCH
S3209	636 000 8571	PUSH SWITCH
		(MISCELLANEOUS)
A3201	636 019 3376	LCD
CT3201	636 000 4795	TRIMMER
CT3202	636 000 4795	TRIMMER
X3201	636 000 5099	CRYSTAL
X3202	636 003 4945	CERAMIC RESONATOR

TB1 BOARD

Location	Part No.	Description
		(DIODES)
D8601	407 050 6202	ZENER DIODE GZA6.2Y
D8602	407 101 5703	LED BR2202S-B1
		(SWITCHES)
S8601	636 018 7344	SW,PUSH 1P-1T

CA1 BOARD

Location	Part No.	Description
		(CAPACITORS)
C9103	403 069 1702	CERAMIC 1000P K 50V
C9104	403 093 0306	TA-SOLID 1U M 35V
C9105	403 069 5601	CERAMIC 0.01U K 50V
C9106	403 069 1702	CERAMIC 1000P K 50V
C9107	403 093 0306	TA-SOLID 1U M 35V
C9108	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9109	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9110	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9111	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C9113	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9114	403 068 0409	CERAMIC 0.1U Z 25V
C9116	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9117	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9118	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9119	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9120	403 069 1702	CERAMIC 1000P K 50V
C9121	403 018 0503	CERAMIC 22P J 50V
C9122	403 014 9203	CERAMIC 180P J 50V
C9123	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9124	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9125	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9126	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9127	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9128	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9129	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9131	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9132	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9133	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9134	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9135	403 069 5601	CERAMIC 0.01U K 50V
C9136	403 069 5601	CERAMIC 0.01U K 50V
C9137	403 069 1702	CERAMIC 1000P K 50V
C9138	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9139	403 009 5708	CERAMIC 100P J 50V
C9140	403 009 5708	CERAMIC 100P J 50V
C9142	403 140 6701	TA-SOLID 3.3U M 16V
or	403 091 4801	TA-SOLID 3.3U M 16V
C9143	403 068 0409	CERAMIC 0.1U Z 25V
C9145	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9146	403 068 0409	CERAMIC 0.1U Z 25V
C9147	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9148	403 009 5708	CERAMIC 100P J 50V
C9149	403 069 1702	CERAMIC 1000P K 50V
C9150	403 026 2803	CERAMIC 47P J 50V
C9151	403 026 2803	CERAMIC 47P J 50V
C9152	403 026 2803	CERAMIC 47P J 50V
C9153	403 026 2803	CERAMIC 47P J 50V
C9155	403 069 5601	CERAMIC 0.01U K 50V
C9156	403 026 2803	CERAMIC 47P J 50V
C9157	403 069 5601	CERAMIC 0.01U K 50V
C9158	403 068 0409	CERAMIC 0.1U Z 25V
C9159	403 140 5506	TA-SOLID 10U M 4V

Location	Part No.	Description
C9159	403 089 4806	TA-SOLID 10U M 4V
C9161	403 068 0409	CERAMIC 0.1U Z 25V
C9167	403 068 0409	CERAMIC 0.1U Z 25V
C9169	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9170	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9171	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9172	403 068 0409	CERAMIC 0.1U Z 25V
C9173	403 068 0409	CERAMIC 0.1U Z 25V
C9174	403 068 0409	CERAMIC 0.1U Z 25V
C9175	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C9177	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9179	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9180	403 068 0409	CERAMIC 0.1U Z 25V
C9181	403 068 0409	CERAMIC 0.1U Z 25V
C9182	403 068 0409	CERAMIC 0.1U Z 25V
C9183	403 068 0409	CERAMIC 0.1U Z 25V
C9184	403 068 0409	CERAMIC 0.1U Z 25V
C9185	403 068 0409	CERAMIC 0.1U Z 25V
C9190	403 023 4404	CERAMIC 330P J 50V
C9191	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9192	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C9193	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C9194	403 038 6707	ELECT 220U M 6.3V
		(DIODES)
D9101	407 004 0201	DIODE DCA015
D9102	407 004 0706	DIODE DCB015
D9103	407 004 0201	DIODE DCA015
D9104	407 008 6209	DIODE MA153-TX
D9105	407 004 0201	DIODE DCA015
D9106	407 004 0201	DIODE DCA015
D9107	407 004 0201	DIODE DCA015
D9108	407 004 0201	DIODE DCA015
D9109	407 004 0706	DIODE DCB015
D9110	407 004 0706	DIODE DCB015
D9111	407 004 0201	DIODE DCA015
D9112	407 004 0706	DIODE DCB015
D9113	407 004 0706	DIODE DCB015
		(INTEGRATED CIRCUITS)
IC9102	409 153 3508	IC CXD1035BQ-Z
IC9103	409 144 3104	IC CXA1070Q-Z
IC9104	409 144 3005	IC CXD1141M-T1
IC9106	409 144 3302	IC CXA1065M-T1
IC9108	409 144 3203	IC CXB0026AM-T1
		(COILS)
L9101	636 003 2101	HF CHOKE, 10UH
L9102	636 003 2101	HF CHOKE, 10UH
L9103	636 003 2101	HF CHOKE, 10UH
L9104	636 003 2101	HF CHOKE, 10UH
L9105	636 003 2101	HF CHOKE, 10UH
		(TRANSISTORS)
Q9101	405 079 2106	TR FMY1-T99
Q9102	405 002 6706	TR 2SA1179-M6
Q9103	405 015 8704	TR 2SC2812-L6
Q9104	405 015 8704	TR 2SC2812-L6
Q9105	405 079 1901	TR FMW5-T99
Q9106	405 015 8704	TR 2SC2812-L6
Q9107	405 079 2502	TR 2SA1462Y34
Q9108	405 079 2601	TR 2SC3735B34
Q9109	405 079 2601	TR 2SC3735B34

Location	Part No.	Description
Q9110	405 079 2502	TR 2SA1462Y34
Q9111	405 045 8200	TR 2SK443-6
Q9112	405 015 8704	TR 2SC2812-L6
Q9113	405 079 2205	TR FMY3-T99
Q9114	405 002 6706	TR 2SA1179-M6
Q9115	405 002 6706	TR 2SA1179-M6
Q9116	405 015 8704	TR 2SC2812-L6
		(RESISTORS)
R9101	401 037 5608	MT-GLAZE 10K JA 1/10W
R9102	401 037 7701	MT-GLAZE 15 JA 1/10W
R9103	401 037 7701	MT-GLAZE 15 JA 1/10W
R9104	401 038 3702	MT-GLAZE 33K JA 1/10W
R9105	401 038 0800	MT-GLAZE 22K JA 1/10W
R9106	401 037 5806	MT-GLAZE 1M JA 1/10W
R9107	401 037 8005	MT-GLAZE 15K JA 1/10W
R9108	401 037 8005	MT-GLAZE 15K JA 1/10W
R9109	401 038 2309	MT-GLAZE 270K JA 1/10W
R9110	401 038 5300	MT-GLAZE 39K JA 1/10W
R9111	401 038 7809	MT-GLAZE 56K JA 1/10W
R9112	401 038 2200	MT-GLAZE 27K JA 1/10W
R9113	401 037 5103	MT-GLAZE 10 JA 1/10W
R9114	401 037 5103	MT-GLAZE 10 JA 1/10W
R9115	401 037 7701	MT-GLAZE 15 JA 1/10W
R9116	401 037 9309	MT-GLAZE 18K JA 1/10W
R9117	401 038 9308	MT-GLAZE 68K JA 1/10W
R9118	401 038 5003	MT-GLAZE 390 JA 1/10W
R9119	401 037 9309	MT-GLAZE 18K JA 1/10W
R9120	401 037 6803	MT-GLAZE 12K JA 1/10W
R9121	401 037 5202	MT-GLAZE 100 JA 1/10W
R9122	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9123	401 037 5806	MT-GLAZE 1M JA 1/10W
R9124	401 037 8104	MT-GLAZE 150K JA 1/10W
R9125	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9126	401 038 3801	MT-GLAZE 330K JA 1/10W
R9127	401 038 3801	MT-GLAZE 330K JA 1/10W
R9128	401 038 3801	MT-GLAZE 330K JA 1/10W
R9129	401 038 3801	MT-GLAZE 330K JA 1/10W
R9130	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9131	401 037 6902	MT-GLAZE 120K JA 1/10W
R9132	401 037 5707	MT-GLAZE 100K JA 1/10W
R9133	401 037 5707	MT-GLAZE 100K JA 1/10W
R9134	401 038 3702	MT-GLAZE 33K JA 1/10W
R9135	401 037 6902	MT-GLAZE 120K JA 1/10W
R9136	401 037 5400	MT-GLAZE 1K JA 1/10W
R9137	401 037 5400	MT-GLAZE 1K JA 1/10W
R9138	401 038 3108	MT-GLAZE 30K JA 1/10W
R9139	401 037 8005	MT-GLAZE 15K JA 1/10W
R9140	401 038 9308	MT-GLAZE 68K JA 1/10W
R9142	401 037 5608	MT-GLAZE 10K JA 1/10W
R9143	401 037 5608	MT-GLAZE 10K JA 1/10W
R9144	401 037 5608	MT-GLAZE 10K JA 1/10W
R9145	401 037 5608	MT-GLAZE 10K JA 1/10W
R9147	401 037 5608	MT-GLAZE 10K JA 1/10W
R9149	401 037 5707	MT-GLAZE 100K JA 1/10W
R9150	401 037 5707	MT-GLAZE 100K JA 1/10W
R9151	401 037 5202	MT-GLAZE 100 JA 1/10W
R9152	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9153	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9154	401 037 5707	MT-GLAZE 100K JA 1/10W
R9155	401 037 5806	MT-GLAZE 1M JA 1/10W
R9156	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9157	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9158	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9159	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9160	401 038 0602	MT-GLAZE 220 JA 1/10W
R9161	401 037 5707	MT-GLAZE 100K JA 1/10W
R9162	401 038 3702	MT-GLAZE 33K JA 1/10W
R9163	401 038 3108	MT-GLAZE 30K JA 1/10W
R9168	401 037 5608	MT-GLAZE 10K JA 1/10W
R9169	401 037 5608	MT-GLAZE 10K JA 1/10W
R9171	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9172	401 037 5004	MT-GLAZE 0 ZA 1/10W

Location	Part No.	Description
R9173	401 037 9309	MT-GLAZE 18K JA 1/10W
R9174	401 038 0800	MT-GLAZE 22K JA 1/10W
R9176	401 038 6505	MT-GLAZE 47K JA 1/10W
R9177	401 037 5608	MT-GLAZE 10K JA 1/10W
R9178	401 038 5409	MT-GLAZE 390K JA 1/10W
R9181	401 038 6505	MT-GLAZE 47K JA 1/10W
R9182	401 037 5707	MT-GLAZE 100K JA 1/10W
R9183	401 038 2200	MT-GLAZE 27K JA 1/10W
R9184	401 038 3702	MT-GLAZE 33K JA 1/10W
R9185	401 037 5707	MT-GLAZE 100K JA 1/10W
R9186	401 037 5707	MT-GLAZE 100K JA 1/10W
R9187	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9188	401 037 5400	MT-GLAZE 1K JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR9101	636 023 4666	SEMI VR, 50K OHM

CA2 BOARD

Location	Part No.	Description
		(CAPACITORS)
C9201	403 018 7403	CERAMIC 220P J 50V
C9202	403 024 2102	CERAMIC 39P J 50V
C9203	403 069 5601	CERAMIC 0.01U K 50V
C9204	403 068 0409	CERAMIC 0.1U Z 25V
C9205	403 068 0409	CERAMIC 0.1U Z 25V
C9206	403 068 0409	CERAMIC 0.1U Z 25V
C9207	403 068 0409	CERAMIC 0.1U Z 25V
C9208	403 068 0409	CERAMIC 0.1U Z 25V
C9209	403 068 0409	CERAMIC 0.1U Z 25V
C9210	403 013 3004	CERAMIC 150P J 50V
C9211	403 068 0409	CERAMIC 0.1U Z 25V
C9212	403 068 0409	CERAMIC 0.1U Z 25V
C9215	403 018 0503	CERAMIC 22P J 50V
C9216	403 018 0503	CERAMIC 22P J 50V
C9217	403 018 0503	CERAMIC 22P J 50V
C9218	403 018 0503	CERAMIC 22P J 50V
C9219	403 068 0409	CERAMIC 0.1U Z 25V
C9220	403 069 1702	CERAMIC 1000P K 50V
C9221	403 068 0409	CERAMIC 0.1U Z 25V
C9222	403 068 0409	CERAMIC 0.1U Z 25V
C9223	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9224	403 068 0409	CERAMIC 0.1U Z 25V
C9225	403 026 2803	CERAMIC 47P J 50V
C9226	403 069 1702	CERAMIC 1000P K 50V
C9227	403 026 2803	CERAMIC 47P J 50V
C9228	403 026 2803	CERAMIC 47P J 50V
C9229	403 026 2803	CERAMIC 47P J 50V
C9230	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9231	403 026 2803	CERAMIC 47P J 50V
C9232	403 026 2803	CERAMIC 47P J 50V
C9234	403 069 1702	CERAMIC 1000P K 50V
C9235	403 069 1702	CERAMIC 1000P K 50V
C9237	403 069 5601	CERAMIC 0.01U K 50V
C9238	403 018 0503	CERAMIC 22P J 50V
C9239	403 018 0503	CERAMIC 22P J 50V
C9240	403 069 5601	CERAMIC 0.01U K 50V
C9242	403 068 0409	CERAMIC 0.1U Z 25V
C9243	403 068 0409	CERAMIC 0.1U Z 25V
C9244	403 013 3004	CERAMIC 150P J 50V
C9245	403 018 7403	CERAMIC 220P J 50V
C9246	403 024 2102	CERAMIC 39P J 50V
C9247	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9249	403 012 6808	CERAMIC 15P J 50V
C9250	403 068 0409	CERAMIC 0.1U Z 25V
C9251	403 068 0409	CERAMIC 0.1U Z 25V
C9252	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9253	403 068 0409	CERAMIC 0.1U Z 25V
C9254	403 105 9402	CERAMIC 10P J 50V
C9255	403 068 0409	CERAMIC 0.1U Z 25V
C9256	403 068 0409	CERAMIC 0.1U Z 25V
C9258	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9259	403 068 0409	CERAMIC 0.1U Z 25V
C9261	403 069 5601	CERAMIC 0.01U K 50V
C9263	403 068 0409	CERAMIC 0.1U Z 25V
C9264	403 105 9402	CERAMIC 10P J 50V
C9265	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9266	403 068 0409	CERAMIC 0.1U Z 25V
C9267	403 069 1702	CERAMIC 1000P K 50V
C9268	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C9269	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C9270	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9271	403 068 0409	CERAMIC 0.1U Z 25V
C9272	403 069 5601	CERAMIC 0.01U K 50V
C9275	403 068 0409	CERAMIC 0.1U Z 25V
C9276	403 068 0409	CERAMIC 0.1U Z 25V
C9277	403 152 9707	ELECT 22U M 6.3V
or	403 162 4006	ELECT 22U M 6.3V
C9290	403 013 7101	CERAMIC 16P J 50V
C9299	403 030 6903	CERAMIC 68P J 50V
		(DIODES)
D9201	407 099 2906	VARACTOR DI 1SV200-11TLC
D9203	407 004 5602	DIODE DSA015
D9206	407 008 6209	DIODE MA153-TX
		(INTEGRATED CIRCUITS)
IC9201	409 144 3609	IC CXA1121Q-Z
IC9202	409 144 2909	IC CXA1072Q-Z
IC9203	409 144 3500	IC CXD1030M-T1
IC9204	409 020 8902	IC LC4066BM-T1
IC9205	409 018 4008	IC LA6393M-T1
IC9206	409 018 4701	IC LA6458M-T1
IC9207	409 018 4701	IC LA6458M-T1
		(COILS)
L9201	636 003 2101	HF CHOKE, 10UH
L9202	636 003 2101	HF CHOKE, 10UH
L9203	636 018 5548	HF CHOKE, 10UH
L9204	636 020 6557	HF CHOKE, 82UH
		(TRANSISTORS)
Q9201	405 015 8704	TR 2SC2812-L6
Q9202	405 079 2304	TR FMY4-T99
Q9203	405 018 2006	TR 2SC3396
Q9204	405 065 5708	TR FMS1-T99
Q9205	405 015 8704	TR 2SC2812-L6
Q9206	405 065 5708	TR FMS1-T99
Q9207	405 018 2006	TR 2SC3396
Q9208	405 015 8704	TR 2SC2812-L6
Q9209	405 015 8704	TR 2SC2812-L6
		(RESISTORS)
R9201	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9202	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9203	401 037 5608	MT-GLAZE 10K JA 1/10W
R9204	401 038 0602	MT-GLAZE 220 JA 1/10W
R9205	401 038 0602	MT-GLAZE 220 JA 1/10W
R9206	401 038 0602	MT-GLAZE 220 JA 1/10W
R9207	401 038 0602	MT-GLAZE 220 JA 1/10W

Location	Part No.	Description
R9208	401 037 8005	MT-GLAZE 15K JA 1/10W
R9209	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9210	401 037 5400	MT-GLAZE 1K JA 1/10W
R9211	401 037 8005	MT-GLAZE 15K JA 1/10W
R9213	401 037 5400	MT-GLAZE 1K JA 1/10W
R9214	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9215	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9216	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9217	401 037 5608	MT-GLAZE 10K JA 1/10W
R9218	401 037 5608	MT-GLAZE 10K JA 1/10W
R9220	401 038 6505	MT-GLAZE 47K JA 1/10W
R9221	401 038 0800	MT-GLAZE 22K JA 1/10W
R9222	401 038 0602	MT-GLAZE 220 JA 1/10W
R9223	401 038 0602	MT-GLAZE 220 JA 1/10W
R9224	401 037 5400	MT-GLAZE 1K JA 1/10W
R9225	401 037 5400	MT-GLAZE 1K JA 1/10W
R9226	401 037 5400	MT-GLAZE 1K JA 1/10W
R9227	401 038 0800	MT-GLAZE 22K JA 1/10W
R9228	401 038 0800	MT-GLAZE 22K JA 1/10W
R9230	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9231	401 037 5806	MT-GLAZE 1M JA 1/10W
R9232	401 037 7008	MT-GLAZE 1.2M JA 1/10W
R9235	401 037 5202	MT-GLAZE 100 JA 1/10W
R9236	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9237	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9238	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9239	401 037 5608	MT-GLAZE 10K JA 1/10W
R9241	401 039 1004	MT-GLAZE 9.1K JA 1/10W
R9242	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9243	401 038 7601	MT-GLAZE 560 JA 1/10W
R9244	401 038 0800	MT-GLAZE 22K JA 1/10W
R9245	401 037 5400	MT-GLAZE 1K JA 1/10W
R9246	401 038 9803	MT-GLAZE 75K JA 1/10W
R9247	401 037 5608	MT-GLAZE 10K JA 1/10W
R9248	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9249	401 037 5400	MT-GLAZE 1K JA 1/10W
R9250	401 037 5707	MT-GLAZE 100K JA 1/10W
R9251	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9252	401 037 5608	MT-GLAZE 10K JA 1/10W
R9253	401 037 5202	MT-GLAZE 100 JA 1/10W
R9256	401 038 0800	MT-GLAZE 22K JA 1/10W
R9260	401 039 0908	MT-GLAZE 910 JA 1/10W
R9261	401 037 5400	MT-GLAZE 1K JA 1/10W
R9263	401 037 5400	MT-GLAZE 1K JA 1/10W
R9264	401 037 5400	MT-GLAZE 1K JA 1/10W
R9265	401 037 9408	MT-GLAZE 180K JA 1/10W
R9266	401 037 6902	MT-GLAZE 120K JA 1/10W
or	401 037 9408	MT-GLAZE 180K JA 1/10W
R9267	401 037 9408	MT-GLAZE 180K JA 1/10W
R9268	401 037 9408	MT-GLAZE 180K JA 1/10W
R9270	401 035 4108	MT-GLAZE 0 ZA 1/8W
R9271	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9272	401 038 0800	MT-GLAZE 22K JA 1/10W
R9275	401 038 0800	MT-GLAZE 22K JA 1/10W
R9276	401 038 3702	MT-GLAZE 33K JA 1/10W
R9277	401 038 2200	MT-GLAZE 27K JA 1/10W
R9278	401 038 6505	MT-GLAZE 47K JA 1/10W
R9279	401 039 0502	MT-GLAZE 82K JA 1/10W
R9280	401 039 0502	MT-GLAZE 82K JA 1/10W
R9281	401 038 7809	MT-GLAZE 56K JA 1/10W
R9282	401 038 9308	MT-GLAZE 68K JA 1/10W
R9283	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9284	401 037 5400	MT-GLAZE 1K JA 1/10W
R9285	401 038 3702	MT-GLAZE 33K JA 1/10W
R9286	401 038 1401	MT-GLAZE 24K JA 1/10W
R9287	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9288	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9289	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9290	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9291	401 037 6803	MT-GLAZE 12K JA 1/10W
R9292	401 037 5608	MT-GLAZE 10K JA 1/10W
R9293	401 037 5608	MT-GLAZE 10K JA 1/10W
R9294	401 037 5608	MT-GLAZE 10K JA 1/10W
R9298	401 037 5004	MT-GLAZE 0 ZA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR9201	636 019 8074	SEMI VR, 47K OHM
SVR9202	636 019 8074	SEMI VR, 47K OHM
SVR9203	636 019 8074	SEMI VR, 47K OHM
SVR9204	636 019 7992	SEMI VR, 22K OHM
SVR9207	636 019 8074	SEMI VR, 47K OHM
SVR9208	636 019 8074	SEMI VR, 47K OHM
SVR9211	636 019 8074	SEMI VR, 47K OHM
SVR9212	636 019 8074	SEMI VR, 47K OHM
SVR9213	636 019 8074	SEMI VR, 47K OHM
SVR9214	636 019 8074	SEMI VR, 47K OHM
SVR9216	636 019 8074	SEMI VR, 47K OHM
SVR9218	636 019 8074	SEMI VR, 47K OHM
SVR9220	636 019 8074	SEMI VR, 47K OHM
SVR9221	636 019 7909	SEMI VR, 10K OHM
SVR9222	636 019 7992	SEMI VR, 22K OHM
SVR9223	636 019 8074	SEMI VR, 47K OHM
SVR9224	636 019 8074	SEMI VR, 47K OHM
SVR9226	636 019 7909	SEMI VR, 10K OHM
SVR9227	636 019 7909	SEMI VR, 10K OHM
		(TRANSFORMERS)
T9201	636 003 4488	HF COIL TRANS
T9202	636 021 3371	FILTER
		(MISCELLANEOUS)
F9201	636 003 6154	FILTER
F9202	636 003 6154	FILTER
VC9201	636 000 4740	TRIMMER
X9201	636 000 4955	CRYSTAL, 17.734476MHZ
X9202	636 020 4324	CRYSTAL UNIT, 28.375MHZ
or	636 020 4331	CRYSTAL UNIT, 28.375MHZ

CA3 BOARD

Location	Part No.	Description
		(CAPACITORS)
C9301	403 020 5503	CERAMIC 270P J 50V
C9302	403 022 8205	CERAMIC 33P J 50V
C9303	403 013 3004	CERAMIC 150P J 50V
C9304	403 022 8205	CERAMIC 33P J 50V
C9305	403 069 1702	CERAMIC 1000P K 50V
C9306	403 068 0409	CERAMIC 0.1U Z 25V
C9307	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9308	403 013 5800	CERAMIC 1500P J 50V
C9309	403 068 0409	CERAMIC 0.1U Z 25V
C9310	403 069 1702	CERAMIC 1000P K 50V
C9311	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9312	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9313	403 069 1702	CERAMIC 1000P K 50V
C9314	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9315	403 068 0409	CERAMIC 0.1U Z 25V
C9316	403 068 0409	CERAMIC 0.1U Z 25V
C9317	403 140 6305	TA-SOLID 2.2U M 10V
or	403 114 5402	TA-SOLID 2.2U M 10V
C9318	403 140 6305	TA-SOLID 2.2U M 10V
or	403 114 5402	TA-SOLID 2.2U M 10V
C9319	403 068 0409	CERAMIC 0.1U Z 25V
C9320	403 068 0409	CERAMIC 0.1U Z 25V
C9321	403 105 9402	CERAMIC 10P J 50V

Location	Part No.	Description
C9322	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9323	403 068 0409	CERAMIC 0.1U Z 25V
C9324	403 068 0409	CERAMIC 0.1U Z 25V
C9325	403 140 6602	TA-SOLID 1U M 16V
or	403 091 0407	TA-SOLID 1U M 16V
C9328	403 068 0409	CERAMIC 0.1U Z 25V
C9329	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9330	403 068 0409	CERAMIC 0.1U Z 25V
C9331	403 068 0409	CERAMIC 0.1U Z 25V
C9332	403 068 0409	CERAMIC 0.1U Z 25V
C9334	403 039 3507	ELECT 470U M 6.3V
C9336	403 140 6404	TA-SOLID 4.7U M 10V
or	403 090 7308	TA-SOLID 4.7U M 10V
C9337	403 069 5601	CERAMIC 0.01U K 50V
C9338	403 069 5601	CERAMIC 0.01U K 50V
C9347	403 140 6305	TA-SOLID 2.2U M 10V
or	403 114 5402	TA-SOLID 2.2U M 10V
C9348	403 075 0706	CERAMIC 6800P K 50V
C9349	403 073 1200	CERAMIC 0.033U K 50V
C9350	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9351	403 068 0409	CERAMIC 0.1U Z 25V
C9352	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9353	403 069 1702	CERAMIC 1000P K 50V
C9354	403 068 0409	CERAMIC 0.1U Z 25V
C9355	403 140 7609	TA-SOLID 0.1U M 35V
or	403 092 5005	TA-SOLID 0.1U M 35V
		(DIODES)
D9301	407 004 8009	DIODE DSB015
D9302	407 090 5104	ZENER DIODE RD2.0MB
D9303	407 004 8009	DIODE DSB015
D9304	407 004 8009	DIODE DSB015
D9305	407 004 8009	DIODE DSB015
D9306	407 057 8902	ZENER DIODE RD8.2MB2
D9307	407 057 8902	ZENER DIODE RD8.2MB2
D9308	407 004 8009	DIODE DSB015
D9310	407 008 6209	DIODE MA153-TX
D9311	407 055 9505	ZENER DIODE RD3.9MB2
D9312	407 004 8009	DIODE DSB015
D9313	407 004 8009	DIODE DSB015
D9314	407 057 8902	ZENER DIODE RD8.2MB2
D9315	407 057 8902	ZENER DIODE RD8.2MB2
D9316	407 057 8902	ZENER DIODE RD8.2MB2
		(INTEGRATED CIRCUITS)
IC9301	410 057 0906	IC S80C51BH/R-6812
IC9302	409 152 6906	IC LC9123A-163
IC9303	410 041 6907	IC MSM6219GS-VK
IC9305	409 111 8200	IC NJM4556MB-T1
IC9306	409 111 6008	IC BA225AF-T1
IC9307	409 018 3704	IC LA6358M-T1
IC9308	410 023 8806	IC MB3763PF-G-BND-TF
		(COILS)
L9301	636 003 5379	CORE
L9302	636 003 5379	CORE
L9303	636 003 5379	CORE
L9304	636 003 5379	CORE
L9305	636 003 5379	CORE
L9306	636 003 5379	CORE
L9307	636 003 5379	CORE
L9308	636 003 5379	CORE
L9309	636 003 5379	CORE
L9310	636 003 2149	HF CHOKE, 22UH
L9311	636 003 2187	HF CHOKE, 47UH
		(TRANSISTORS)
Q9301	405 015 8704	TR 2SC2812-L6
Q9302	405 015 8704	TR 2SC2812-L6
Q9303	405 074 0701	TR IMX2-109
Q9304	405 015 8704	TR 2SC2812-L6
Q9305	405 015 8704	TR 2SC2812-L6
Q9306	405 061 4101	TR 2SA1434
Q9307	405 015 8704	TR 2SC2812-L6
Q9308	405 002 6706	TR 2SA1179-M6
Q9310	405 015 8704	TR 2SC2812-L6
Q9313	405 079 2007	TR FMG8-T99
Q9314	405 015 8704	TR 2SC2812-L6
Q9315	405 082 4807	TR FMS2-T99
Q9317	405 069 5902	TR FMA5-T99
Q9320	405 015 8704	TR 2SC2812-L6
Q9321	405 063 2303	TR 2SA1342-CL
Q9322	405 015 8704	TR 2SC2812-L6
Q9323	405 018 2006	TR 2SC3396
		(RESISTORS)
R9301	401 037 5608	MT-GLAZE 10K JA 1/10W
R9302	401 037 5400	MT-GLAZE 1K JA 1/10W
R9303	401 038 7205	MT-GLAZE 5.1K JA 1/10W
R9304	401 037 5608	MT-GLAZE 10K JA 1/10W
R9305	401 037 5202	MT-GLAZE 100 JA 1/10W
R9306	401 038 2002	MT-GLAZE 270 JA 1/10W
R9307	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9309	401 037 5400	MT-GLAZE 1K JA 1/10W
R9311	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9312	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9313	401 038 0909	MT-GLAZE 220K JA 1/10W
R9314	401 038 6505	MT-GLAZE 47K JA 1/10W
R9315	401 037 5400	MT-GLAZE 1K JA 1/10W
R9316	401 037 5400	MT-GLAZE 1K JA 1/10W
R9317	401 037 5608	MT-GLAZE 10K JA 1/10W
R9318	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9319	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9322	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R9323	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9325	401 037 5608	MT-GLAZE 10K JA 1/10W
R9326	401 038 6505	MT-GLAZE 47K JA 1/10W
R9327	401 038 0503	MT-GLAZE 22 JA 1/10W
R9328	401 038 7601	MT-GLAZE 560 JA 1/10W
R9329	401 037 5806	MT-GLAZE 1M JA 1/10W
R9330	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9331	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R9332	401 037 8005	MT-GLAZE 15K JA 1/10W
R9333	401 037 6803	MT-GLAZE 12K JA 1/10W
R9334	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9335	401 038 0602	MT-GLAZE 220 JA 1/10W
R9336	401 037 5608	MT-GLAZE 10K JA 1/10W
R9337	401 038 2200	MT-GLAZE 27K JA 1/10W
R9338	401 038 7809	MT-GLAZE 56K JA 1/10W
R9339	401 038 0800	MT-GLAZE 22K JA 1/10W
R9340	401 039 1004	MT-GLAZE 9.1K JA 1/10W
R9341	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9342	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9353	401 037 5400	MT-GLAZE 1K JA 1/10W
R9357	401 038 7205	MT-GLAZE 5.1K JA 1/10W
R9358	401 037 5608	MT-GLAZE 10K JA 1/10W
R9360	401 037 6308	MT-GLAZE 110K JA 1/10W
R9361	401 037 5707	MT-GLAZE 100K JA 1/10W
R9362	401 038 7809	MT-GLAZE 56K JA 1/10W
R9363	401 037 5400	MT-GLAZE 1K JA 1/10W
R9365	401 038 5300	MT-GLAZE 39K JA 1/10W
R9366	401 039 0502	MT-GLAZE 82K JA 1/10W
R9367	401 038 6307	MT-GLAZE 470 JA 1/10W
R9370	401 038 5300	MT-GLAZE 39K JA 1/10W
R9371	401 038 3702	MT-GLAZE 33K JA 1/10W
R9372	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9373	401 037 6803	MT-GLAZE 12K JA 1/10W
R9374	401 038 0107	MT-GLAZE 2K JA 1/10W
R9375	401 038 3801	MT-GLAZE 330K JA 1/10W
R9377	401 038 6604	MT-GLAZE 470K JA 1/10W
R9378	401 039 0601	MT-GLAZE 820K JA 1/10W

Location	Part No.	Description
R9381	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9382	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9383	401 037 5103	MT-GLAZE 10 JA 1/10W
R9384	401 037 5707	MT-GLAZE 100K JA 1/10W
R9385	401 037 5608	MT-GLAZE 10K JA 1/10W
R9386	401 038 6307	MT-GLAZE 470 JA 1/10W
R9387	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9388	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9391	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9392	401 037 5400	MT-GLAZE 1K JA 1/10W
R9393	401 037 5400	MT-GLAZE 1K JA 1/10W
R9394	401 037 5004	MT-GLAZE 0 ZA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR9301	636 000 3866	SEMI VR, 47K OHM
		(SWITCHES)
S9301	636 000 8489	PUSH SWITCH
S9302	636 000 8366	SLIDE SWITCH
S9303	636 000 8397	SLIDE SWITCH
S9304	636 000 8489	PUSH SWITCH
		(TRANSFORMERS)
T9301	636 003 4402	HF COIL TRANS
		(MISCELLANEOUS)
A9301	636 021 3227	UNIT,DC-DC CONVERTOR

CA4 BOARD

Location	Part No.	Description
		(CAPACITORS)
C9401	403 117 4501	CERAMIC 0.039U K 25V
C9402	403 117 4501	CERAMIC 0.039U K 25V
C9403	403 069 5601	CERAMIC 0.01U K 50V
C9406	403 013 3004	CERAMIC 150P J 50V
C9407	403 013 3004	CERAMIC 150P J 50V
C9408	403 018 7403	CERAMIC 220P J 50V
C9409	403 033 4500	CERAMIC 82P J 50V
C9411	403 013 3004	CERAMIC 150P J 50V
C9412	403 013 3004	CERAMIC 150P J 50V
C9413	403 018 7403	CERAMIC 220P J 50V
C9414	403 033 4500	CERAMIC 82P J 50V
C9415	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9416	403 117 4501	CERAMIC 0.039U K 25V
C9417	403 117 4501	CERAMIC 0.039U K 25V
C9418	403 153 0901	ELECT 100U M 6.3V
C9419	403 117 4501	CERAMIC 0.039U K 25V
C9421	403 117 4501	CERAMIC 0.039U K 25V
C9422	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C9423	403 033 4500	CERAMIC 82P J 50V
C9424	403 018 7403	CERAMIC 220P J 50V
C9425	403 010 8507	CERAMIC 12P J 50V
C9426	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C9427	403 140 7203	TA-SOLID 0.47U M 25V
or	403 091 8809	TA-SOLID 0.47U M 25V
C9428	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9429	403 117 4501	CERAMIC 0.039U K 25V
C9431	403 024 2102	CERAMIC 39P J 50V
C9432	403 024 2102	CERAMIC 39P J 50V
C9433	403 117 4501	CERAMIC 0.039U K 25V
C9435	403 153 0901	ELECT 100U M 6.3V

Location	Part No.	Description
C9436	403 117 4501	CERAMIC 0.039U K 25V
C9438	403 117 4501	CERAMIC 0.039U K 25V
C9443	403 117 4501	CERAMIC 0.039U K 25V
C9444	403 014 3409	CERAMIC 18P J 50V
C9445	403 117 4501	CERAMIC 0.039U K 25V
C9446	403 117 4501	CERAMIC 0.039U K 25V
C9447	403 018 7403	CERAMIC 220P J 50V
C9448	403 018 7403	CERAMIC 220P J 50V
C9703	403 010 1102	CERAMIC 1000P J 50V
C9704	403 010 1102	CERAMIC 1000P J 50V
C9705	403 010 1102	CERAMIC 1000P J 50V
		(DIODES)
D9401	407 004 1000	DIODE DCC010
		(INTEGRATED CIRCUITS)
IC9401	409 144 2206	IC CXA1157M-T1
IC9402	409 144 2602	IC UPC311G2-T1
IC9403	409 144 2503	IC AN2020S-(T1)
IC9404	409 115 3409	IC MN74HC4053S-Z
IC9405	409 144 3708	IC TC4S11F(TE85L)
IC9406	409 149 5301	IC TC7S00F(TE85L)
IC9407	409 020 7301	IC LC4013BM-T1
IC9408	409 155 7702	IC TC4S66F(TE85L)
IC9409	409 155 7702	IC TC4S66F(TE85L)
IC9411	409 152 5602	IC TC7S32F(TE85L)
IC9412	409 018 4008	IC LA6393M-T1
		(COILS)
L9401	636 003 2149	HF CHOKE, 22UH
L9402	636 002 8869	RF CHOKE, 220UH
L9403	636 003 2194	HF CHOKE, 56UH
L9404	636 003 2194	HF CHOKE, 56UH
L9405	636 003 2149	HF CHOKE, 22UH
L9406	636 002 8869	RF CHOKE, 220UH
		(TRANSISTORS)
Q9403	405 015 8704	TR 2SC2812-L6
Q9404	405 082 9000	TR IMZ2-T99
Q9406	405 074 0701	TR IMX2-109
Q9408	405 082 9000	TR IMZ2-T99
Q9411	405 074 0701	TR IMX2-109
Q9413	405 074 0701	TR IMX2-109
Q9415	405 015 8704	TR 2SC2812-L6
Q9416	405 015 8704	TR 2SC2812-L6
Q9417	405 002 6706	TR 2SA1179-M6
Q9418	405 015 8704	TR 2SC2812-L6
Q9419	405 002 6706	TR 2SA1179-M6
Q9421	405 002 6706	TR 2SA1179-M6
Q9422	405 018 2204	TR 2SC3397
Q9423	405 002 6706	TR 2SA1179-M6
Q9424	405 015 8704	TR 2SC2812-L6
Q9442	405 015 8704	TR 2SC2812-L6
		(RESISTORS)
R9401	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9402	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9403	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9404	401 038 0800	MT-GLAZE 22K JA 1/10W
R9405	401 037 5608	MT-GLAZE 10K JA 1/10W
R9406	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9407	401 037 5608	MT-GLAZE 10K JA 1/10W
R9408	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9412	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9413	401 037 5608	MT-GLAZE 10K JA 1/10W
R9414	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9415	401 038 2002	MT-GLAZE 270 JA 1/10W
R9416	401 037 5400	MT-GLAZE 1K JA 1/10W
R9417	401 037 5400	MT-GLAZE 1K JA 1/10W
R9418	401 037 5400	MT-GLAZE 1K JA 1/10W
R9419	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9421	401 037 5400	MT-GLAZE 1K JA 1/10W
R9422	401 037 5400	MT-GLAZE 1K JA 1/10W

Location	Part No.	Description
R9423	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9424	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9425	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9426	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9427	401 037 8005	MT-GLAZE 15K JA 1/10W
R9428	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9429	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9431	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R9432	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R9433	401 037 5400	MT-GLAZE 1K JA 1/10W
R9434	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9435	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9436	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9437	401 038 5300	MT-GLAZE 39K JA 1/10W
R9439	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9441	401 037 5400	MT-GLAZE 1K JA 1/10W
R9442	401 037 5400	MT-GLAZE 1K JA 1/10W
R9443	401 037 5400	MT-GLAZE 1K JA 1/10W
R9444	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9445	401 037 5400	MT-GLAZE 1K JA 1/10W
R9446	401 037 5400	MT-GLAZE 1K JA 1/10W
R9447	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9448	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9449	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9451	401 038 8608	MT-GLAZE 6.2K JA 1/10W
R9452	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9453	401 038 6000	MT-GLAZE 43K JA 1/10W
R9454	401 037 8708	MT-GLAZE 16K JA 1/10W
R9455	401 037 8708	MT-GLAZE 16K JA 1/10W
R9456	401 037 5400	MT-GLAZE 1K JA 1/10W
R9457	401 037 5400	MT-GLAZE 1K JA 1/10W
R9458	401 037 5400	MT-GLAZE 1K JA 1/10W
R9459	401 038 7601	MT-GLAZE 560 JA 1/10W
R9461	401 038 6505	MT-GLAZE 47K JA 1/10W
R9462	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9463	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9464	401 038 7601	MT-GLAZE 560 JA 1/10W
R9465	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9466	401 037 5400	MT-GLAZE 1K JA 1/10W
R9467	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9468	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9469	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9472	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9473	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9474	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9476	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9478	401 038 4907	MT-GLAZE 39 JA 1/10W
R9481	401 037 5400	MT-GLAZE 1K JA 1/10W
R9482	401 037 5400	MT-GLAZE 1K JA 1/10W
R9483	401 037 5400	MT-GLAZE 1K JA 1/10W
R9484	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9485	401 037 5400	MT-GLAZE 1K JA 1/10W
R9486	401 037 5004	MT-GLAZE 0 ZA 1/10W
R9487	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R9488	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9489	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9491	401 037 7305	MT-GLAZE 1.3K JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR9401	636 019 7992	SEMI VR, 22K OHM
SVR9403	636 019 8074	SEMI VR, 47K OHM
SVR9404	636 019 8074	SEMI VR, 47K OHM
SVR9405	636 019 7893	SEMI VR, 1K OHM
SVR9406	636 019 8029	SEMI VR, 3.3K OHM

CA5 BOARD

Location	Part No.	Description
	636 013 8735	SHIELD PLATE, SIDE A
	636 013 8742	SHIELD PLATE, SIDE B
		(CAPACITORS)
C9501	403 117 4501	CERAMIC 0.039U K 25V
C9502	403 022 8700	CERAMIC 33P J 50V
C9503	403 018 7403	CERAMIC 220P J 50V
C9504	403 117 4501	CERAMIC 0.039U K 25V
C9505	403 117 4501	CERAMIC 0.039U K 25V
C9506	403 117 4501	CERAMIC 0.039U K 25V
C9507	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9508	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C9509	403 140 6008	TA-SOLID 6.8U M 6.3V
or	403 090 2006	TA-SOLID 6.8U M 6.3V
C9510	403 117 4501	CERAMIC 0.039U K 25V
C9511	403 117 4501	CERAMIC 0.039U K 25V
C9512	403 010 1201	CERAMIC 1000P J 50V
C9513	403 069 5601	CERAMIC 0.01U K 50V
C9514	403 023 4404	CERAMIC 330P J 50V
C9515	403 105 9402	CERAMIC 10P J 50V
		(INTEGRATED CIRCUITS)
IC9501	409 152 4407	IC MN4464S-10LL-T1
or	410 048 4005	IC HM6264ALFP15
or	409 146 4703	IC LC3564PML-15
or	409 137 0608	IC LC3564PML-12
IC9502	409 151 2909	IC MN74HC00S-T1
IC9503	409 144 2305	IC MN74HC245S-T1
IC9504	409 144 2404	IC MN74HC240S-T1
IC9505	409 144 9908	IC MB673194U
IC9506	409 149 5202	IC BA226F-T1
		(COILS)
L9501	636 003 2194	HF CHOKE, 56UH
L9502	636 003 2101	HF CHOKE, 10UH
L9503	636 003 2101	HF CHOKE, 10UH
L9504	636 003 5379	CORE
L9505	636 003 5379	CORE
		(RESISTORS)
R9501	401 037 5707	MT-GLAZE 100K JA 1/10W
R9502	401 038 6307	MT-GLAZE 470 JA 1/10W
R9503	401 037 5400	MT-GLAZE 1K JA 1/10W
R9504	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9505	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R9506	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9507	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R9516	401 037 5608	MT-GLAZE 10K JA 1/10W
R9517	401 037 5400	MT-GLAZE 1K JA 1/10W
R9518	401 037 5806	MT-GLAZE 1M JA 1/10W
R9519	401 037 5400	MT-GLAZE 1K JA 1/10W
R9521	401 039 0304	MT-GLAZE 820 JA 1/10W
R9522	401 038 7700	MT-GLAZE 5.6K JA 1/10W
		(MISCELLANEOUS)
VC9501	636 000 4740	TRIMMER

VF1 BOARD

Location	Part No.	Description
		(CAPACITORS)
C9901	403 153 0901	ELECT 100U M 6.3V
C9902	403 150 0102	CERAMIC 1800P J 50V
C9903	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V

Location	Part No.	Description
C9904	403 070 9803	CERAMIC 0.015U K 50V
C9905	403 134 7400	CERAMIC 1U Z 16V
C9906	403 018 7403	CERAMIC 220P J 50V
C9907	403 090 6509	TA-SOLID 33U M 10V
C9908	403 152 9509	ELECT 33U M 4V
or	403 162 3801	ELECT 33U M 4V
C9909	403 152 9509	ELECT 33U M 4V
or	403 162 3801	ELECT 33U M 4V
C9910	403 091 6706	TA-SOLID 0.68U M 20V
C9911	403 152 9806	ELECT 10U M 16V
or	403 162 4709	ELECT 10U M 16V
C9914	403 030 6903	CERAMIC 68P J 50V
C9915	403 152 8502	ELECT 1U M 50V
C9916	403 155 5201	POLYPRO 3900P J 200V
C9917	403 153 1205	ELECT 47U M 16V
C9918	403 051 8009	ELECT 10U M 63V
C9919	403 090 6509	TA-SOLID 33U M 10V
C9920	403 153 0901	ELECT 100U M 6.3V
C9922	403 075 2205	CERAMIC 0.068U K 50V
C9923	⚠ 403 076 6707	CERAMIC 1000P K 1K
C9924	⚠ 403 076 6707	CERAMIC 1000P K 1K
C9925	403 161 8708	CERAMIC 470P J 100V
		(DIODES)
D9901	407 008 5707	DIODE MA152K-TX
D9902	407 004 5602	DIODE DSA015
D9903	⚠ 407 101 3402	DIODE 1SS221
D9904	⚠ 407 101 3303	DIODE ESJ04-02
		(INTEGRATED CIRCUITS)
IC9901	409 000 6409	IC AN2510S-T1
		(COILS)
L9901	⚠ 636 002 8906	HF CHOKE, 100UH
L9902	⚠ 636 021 3265	WIDTH COIL TRANS
L9904	636 003 2040	HF CHOKE, 3.3UH
		(TRANSISTORS)
Q9901	405 043 8806	TR 2SA1257-G4
or	405 043 8905	TR 2SA1257-G5
Q9902	405 020 9000	TR 2SD1005-T1-BV
		(RESISTORS)
R9901	401 037 5400	MT-GLAZE 1K JA 1/10W
R9902	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9903	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9904	401 038 9308	MT-GLAZE 68K JA 1/10W
R9905	401 037 7800	MT-GLAZE 150 JA 1/10W
R9906	401 037 5400	MT-GLAZE 1K JA 1/10W
R9907	401 038 5607	MT-GLAZE 4.7 KA 1/10W
R9908	401 037 7800	MT-GLAZE 150 JA 1/10W
R9909	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9910	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9911	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R9916	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R9918	401 037 5806	MT-GLAZE 1M JA 1/10W
R9920	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R9921	401 035 8403	MT-GLAZE 1.5M JA 1/8W
R9922	401 035 8403	MT-GLAZE 1.5M JA 1/8W
R9923	401 035 5709	MT-GLAZE 1M JA 1/8W
R9924	⚠ 401 037 9408	MT-GLAZE 180K JA 1/10W
R9925	401 037 8203	MT-GLAZE 1.5M JA 1/10W
R9933	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R9934	401 037 5103	MT-GLAZE 10 JA 1/10W
		(SEMI VARIABLE RESISTORS)
SVR9901	636 000 2913	SEMI VR, 2.2K OHM
SVR9902	636 000 2852	SEMI VR, 220 OHM
SVR9903	636 000 2975	SEMI VR, 22K OHM
SVR9904	636 000 3910	SEMI VR, 33K OHM
SVR9905	636 000 3958	SEMI VR, 1.5M OHM

Location	Part No.	Description
		(TRANSFORMERS)
T9901	⚠ 636 018 7320	TRANS,FLYBACK
		(MISCELLANEOUS)
CN9903	⚠ 636 019 0474	CORD
TH9901	407 014 9003	THERMISTOR SDT-02

TC1 BOARD

Location	Part No.	Description
	636 018 5951	SHIELD PLATE
		(CAPACITORS)
C2101	403 069 5601	CERAMIC 0.01U K 50V
C2103	403 073 4508	CERAMIC 0.039U K 50V
C2104	403 092 6606	TA-SOLID 0.22U M 35V
C2105	403 028 4102	CERAMIC 56P J 50V
C2106	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C2107	403 014 9203	CERAMIC 180P J 50V
C2108	403 152 9608	ELECT 47U M 4V
or	403 162 3900	ELECT 47U M 4V
C2109	403 153 0901	ELECT 100U M 6.3V
C2110	403 033 9000	CERAMIC 820P J 50V
C2111	403 026 7600	CERAMIC 470P J 50V
C2112	403 026 7600	CERAMIC 470P J 50V
C2113	403 014 9203	CERAMIC 180P J 50V
C9701	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
C9702	403 140 5902	TA-SOLID 3.3U M 6.3V
or	403 114 5600	TA-SOLID 3.3U M 6.3V
		(DIODES)
D9701	407 107 6407	PHOTO DIODE AM-3306GCY
		(INTEGRATED CIRCUITS)
IC9701	409 153 3904	IC LA6600M-T1
		(COILS)
L2101	636 003 5379	CORE
L2102	636 003 5379	CORE
L2103	636 003 5379	CORE
L2104	636 003 5379	CORE
		(TRANSISTORS)
Q2101	405 074 0701	TR IMX2-109
Q2103	405 015 4409	TR 2SC2712-LL-TE85L
		(RESISTORS)
R2101	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2102	401 038 7809	MT-GLAZE 56K JA 1/10W
R2103	401 038 2200	MT-GLAZE 27K JA 1/10W
R2104	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R2105	401 038 0602	MT-GLAZE 220 JA 1/10W
R2106	401 037 6803	MT-GLAZE 12K JA 1/10W
R2107	401 038 3504	MT-GLAZE 330 JA 1/10W
R2109	401 037 5400	MT-GLAZE 1K JA 1/10W
R2110	401 037 6803	MT-GLAZE 12K JA 1/10W
R2111	401 038 0800	MT-GLAZE 22K JA 1/10W
R2112	401 038 0800	MT-GLAZE 22K JA 1/10W
R2113	401 037 5608	MT-GLAZE 10K JA 1/10W
R2114	401 038 2101	MT-GLAZE 2.7K JA 1/10W

SCHEMATIC DIAGRAM
&
PRINTED WIRING BOARD

MODEL VM-D5P (SANYO)
FVC-P901 (FISHER)

CONTENTS

OVERALL WIRING DIAGRAM, SEMICONDUCTORS 🅐

P.C.B. CA-1 🅑

P.C.B. CA-2 🅒

P.C.B. CA-3 🅓

P.C.B. CA-4 🅔

P.C.B. CA-5 🅕

P.C.B. VF-1 🅖

P.C.B. TC-1,
P.C.B. TC-2 🅗

P.C.B. PW-1 🅘

P.C.B. VD-1 🅙 🅚

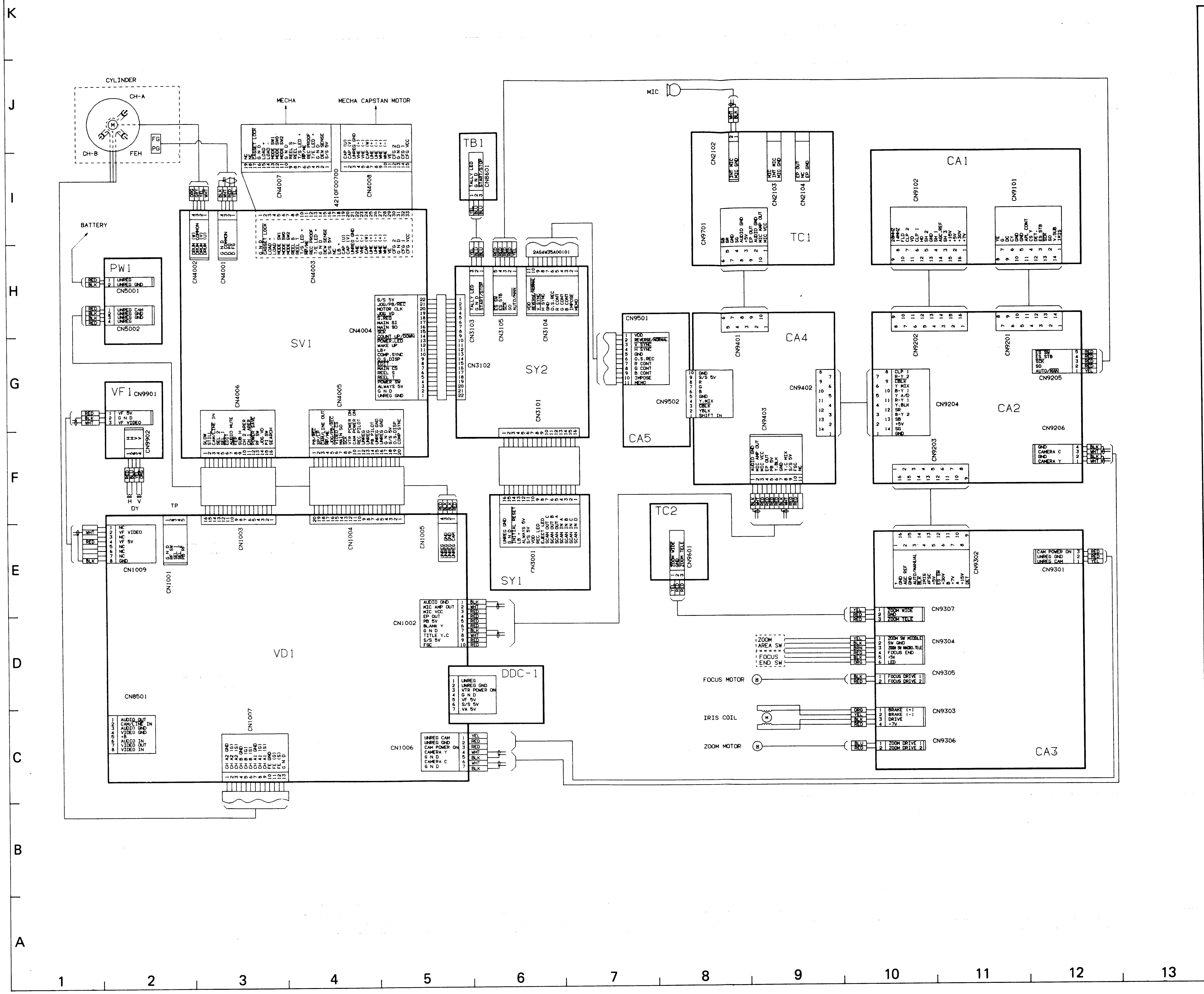
P.C.B. SV-1 🅛

P.C.B. SY-1 🅜

P.C.B. SY-2 🅝

- —— : +B bus.
- Voltage values: Relative to ground, measured with a DC digital multimeter
- The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.
- All resistors are in ohms.
- All capacitors are in μF (p: pF).
- All coils are in mH (μ: μH).
- Cautions
  - Pattern face side (Solder Side) : Parts on the pattern face side seen from the pattern face are indicated.
  - Parts face side (Component Side) : Parts on the parts face side seen from the pattern face are indicated.

OVERALL WIRING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CH-B
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BATTERY
MECHA
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CN9902
DY
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V
TP
SV1
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CN4006
CN4007
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CN3104
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FOCUS MOTOR
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ZOOM MOTOR
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CN1002
CN1003
CN1004
CN1005
CN1006
CN1007
CN1009
CN8501
DDC-1
K
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F
E
D
C
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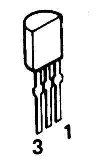
15
16

SEMICONDUCTORS

PST529D



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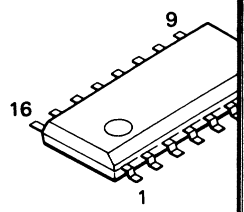

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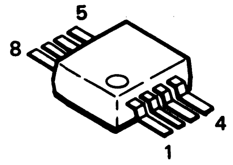

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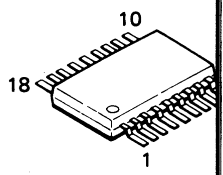

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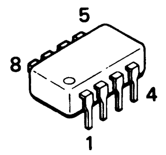

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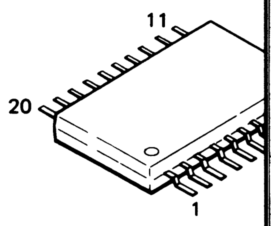

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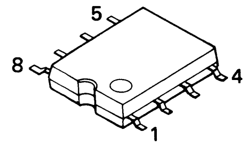

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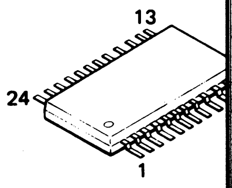

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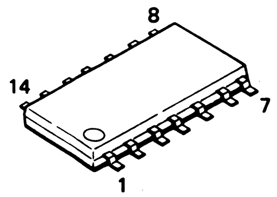

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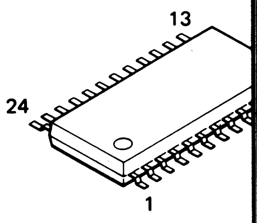

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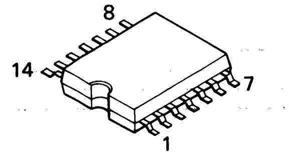

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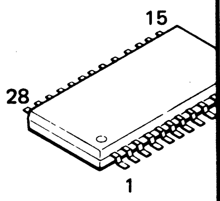

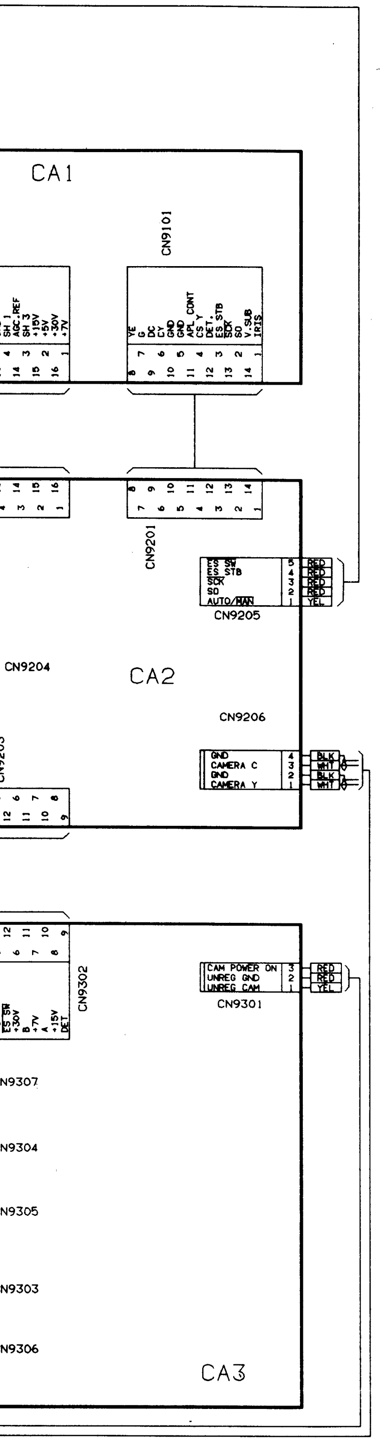
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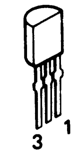
CS Y
DET.
ES STB
SCK
SO
V.SUB
IRIS
SH 1
AGC.REF
SH 3
+15V
+5V
+30V
+7V
CN9201
ES SW
ES STB
SCK
SO
AUTO/MAN
RED
YEL
CN9205
CN9204
CA2
CN9206
GND
CAMERA C
GND
CAMERA Y
BLK
WHT
CN9302
ES SW
+30V
B
+7V
A
+15V
DET
CAM POWER ON
UNREG GND
UNREG CAM
CN9301
CN9307
CN9304
CN9305
CN9303
CN9306
CA3

SEMICONDUCTORS

PST529D



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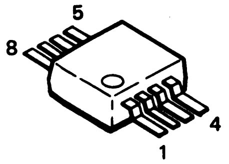

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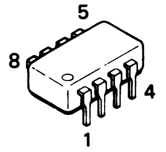

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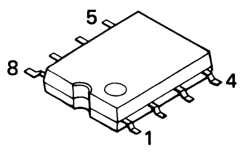

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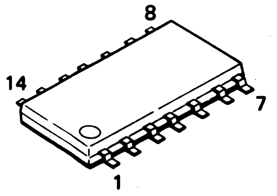

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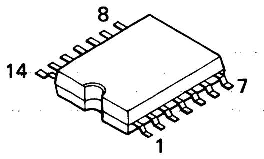
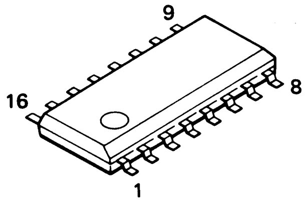


CXA1157M
CXD1141M



BA7135F
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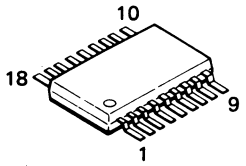

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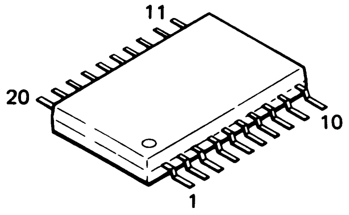

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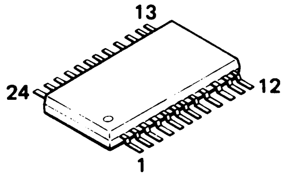
LA6600M



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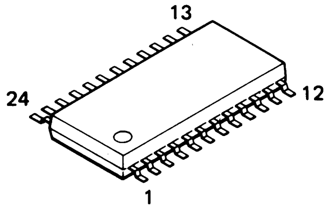

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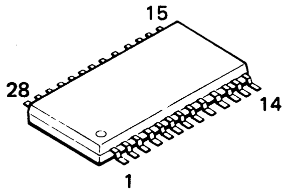

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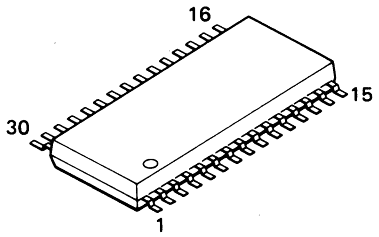

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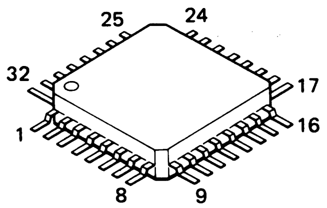
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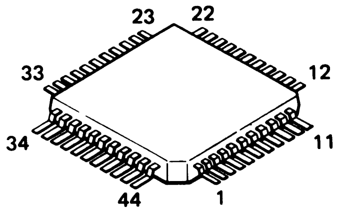
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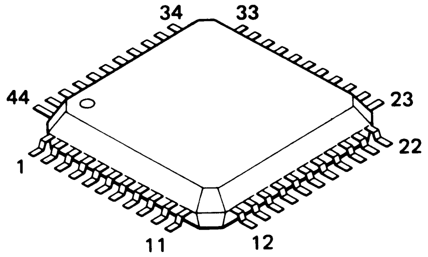
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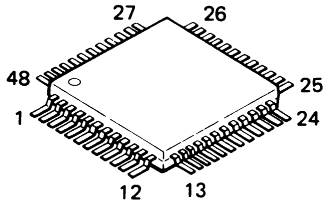
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CXA1072Q
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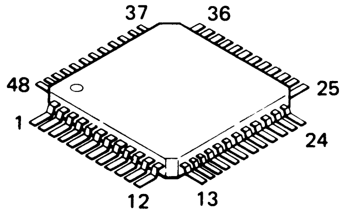
CXA1202Q
CXA1121Q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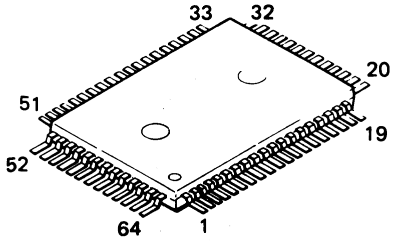
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32
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64
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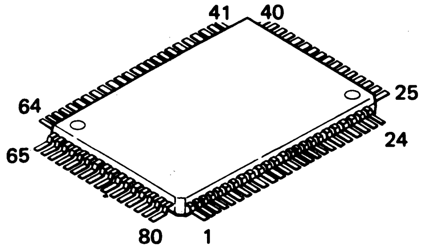
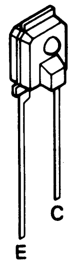
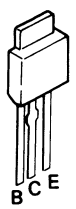
µPD75306G
CXP80116


41
40
25
64
24
65
80
1

PT480FI



2SB1205



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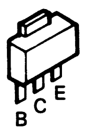
2SA1203



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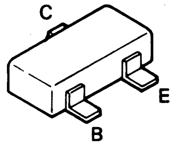
2SD1000
2SA1179
2SA1341
2SA1343
2SB815
2SC3735
2SC2712
2SC2812
2SC3396
2SC3397
2SA1257
DTC114TK
2SC3395
SSK303
2SA1344
2SC3398
2SA1122
2SA1434
2SA1462



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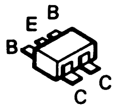
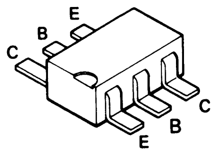
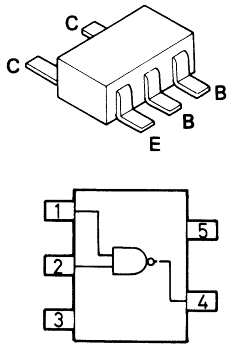
FMS1
FMA5
FMG2
FMW1
FM2S
FMY1
FMW5



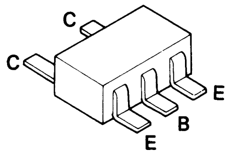
IMX2
IMZ1



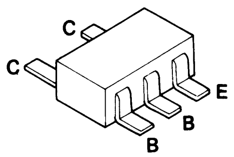
TC4S11F
TC7S00F


C
C
B
B
E
1
2
3
5
4

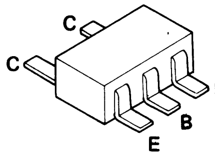
FMC3



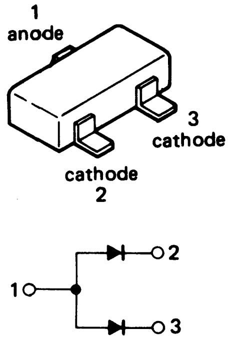
FMY3



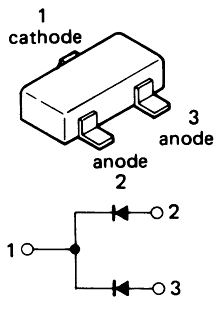
FMY4



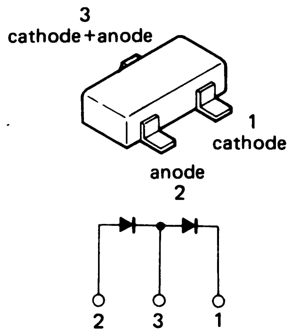
DCA015


1
anode
3
cathode
cathode
2
2
1
3

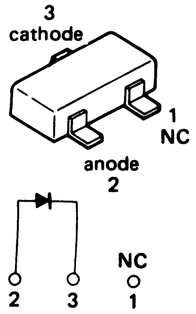
DCB015


1
cathode
3
anode
anode
2
2
1
3

MA153
DCC010
1SS226


3
cathode+anode
1
cathode
anode
2
2
3
1

1SS221
DSB015
DSA015
E10QS03
MA152K
RD2.0M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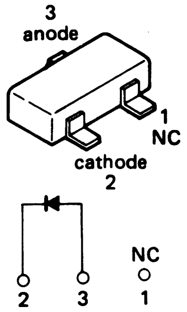
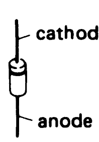
cathode
1
NC
anode
2
NC
2
3
1

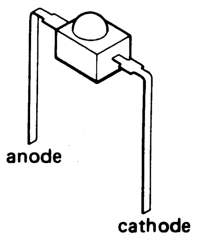
RD13M-B1
RD8.2M-B2


3
anode
1
NC
cathode
2
NC
2
3
1

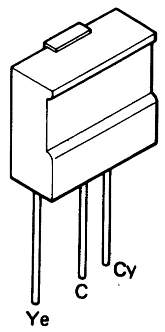
ESJ04
GZA6.2Y


cathode
anode

BR2202S


anode
cathode

AM-3208S



Ⓐ

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

K

J

I

H

G

F

Ⓑ

E

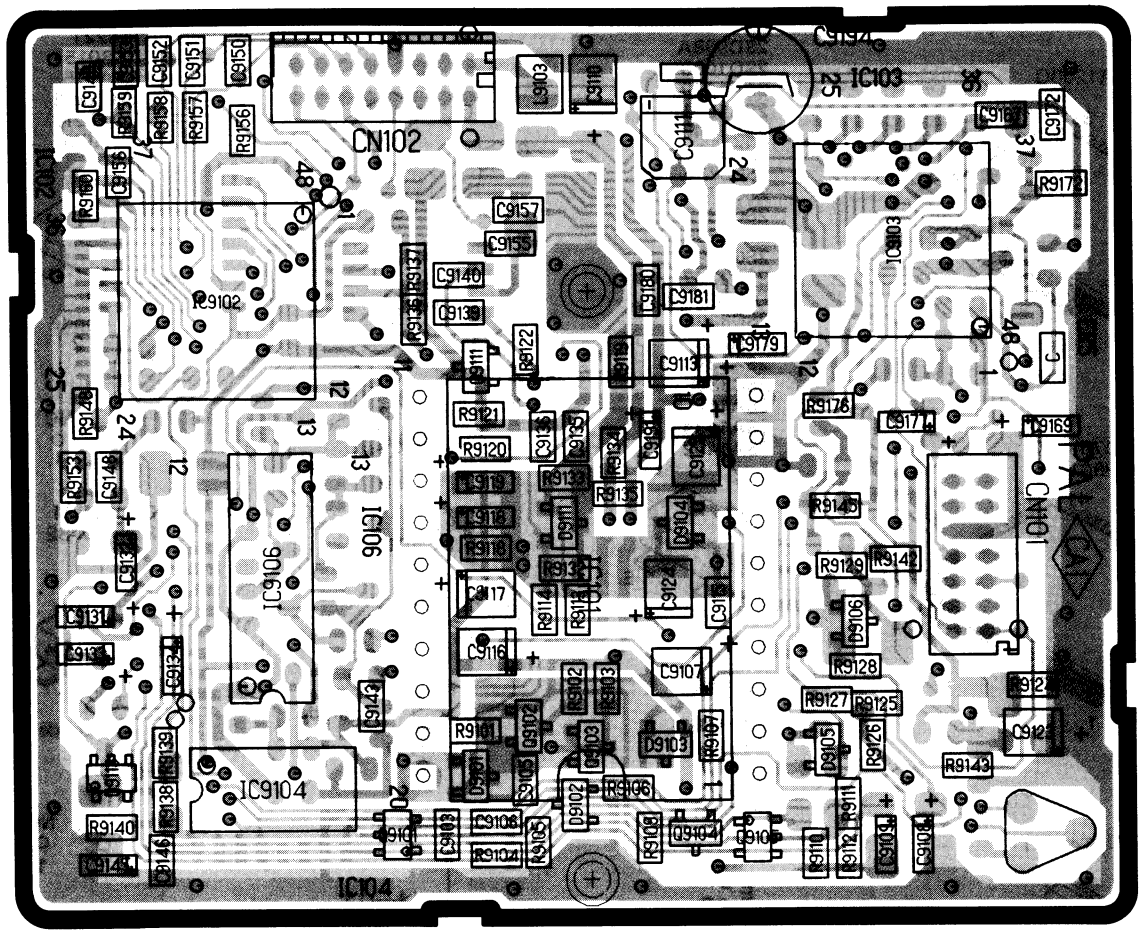
D

C

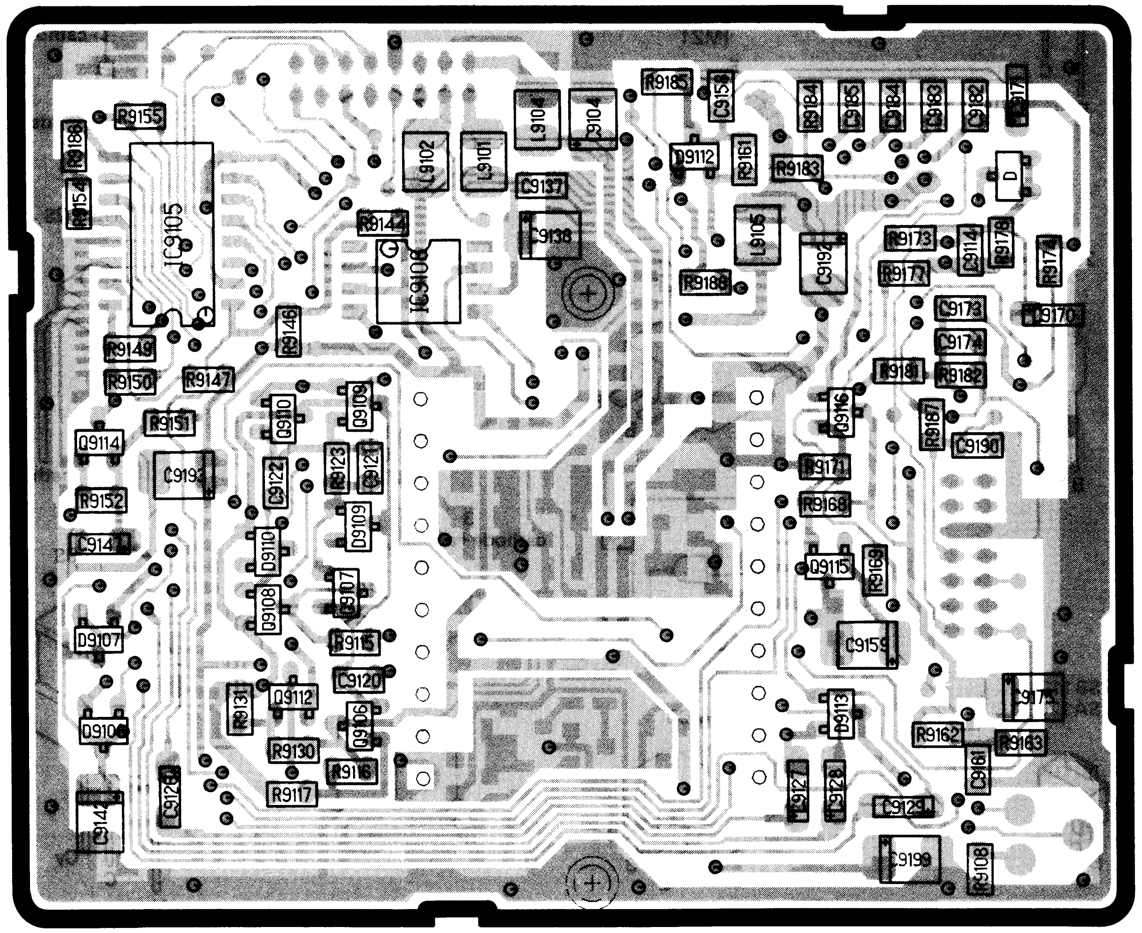
B

A

CA-1 BOARD SIDE A


CN102
IC103
CN101
IC9102
IC9106
IC9104
IC104
IC106
C9157
C9155
C9140
C9181
C9113
R9121
R9120
R9176
R9145
R9129
R9142
R9128
R9127
R9125
R9143
R9140
C9107
C9116
C9117
D9103
D9102
D9104
D9105
D9106

CA-1 BOARD SIDE B


IC9105
IC9100
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R9185
R9183
R9173
R9177
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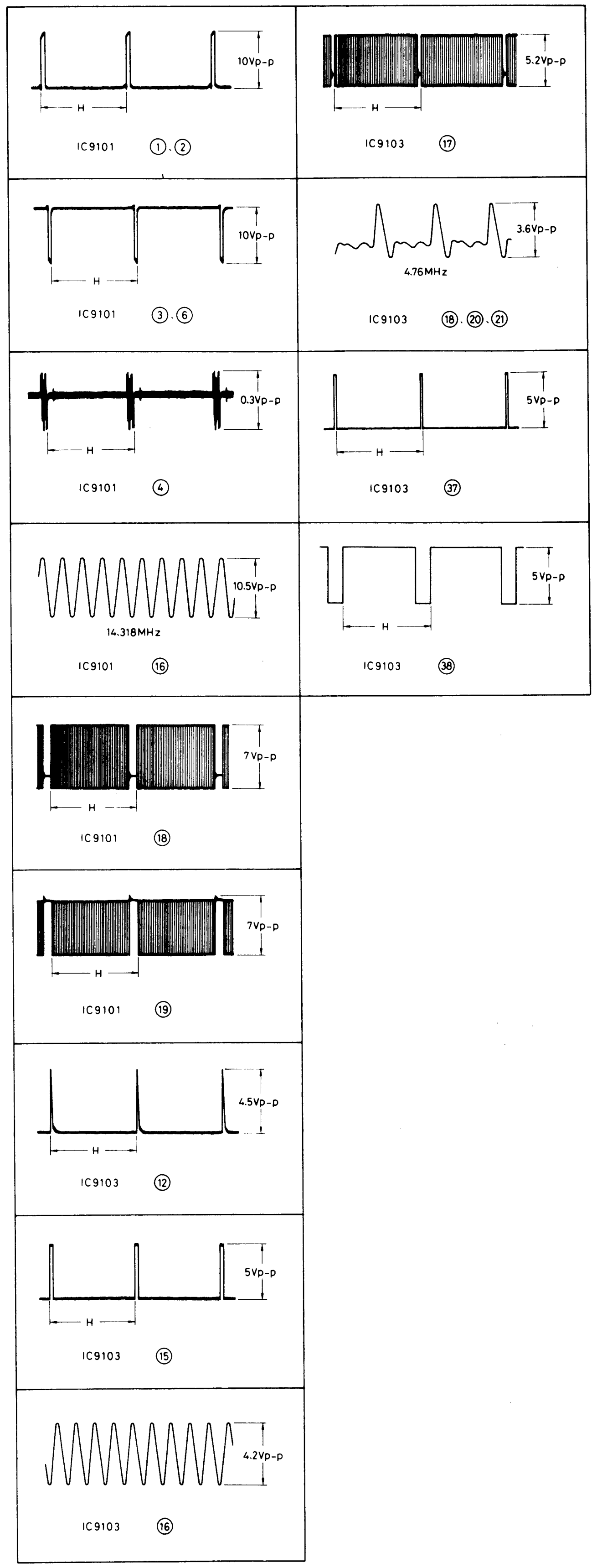
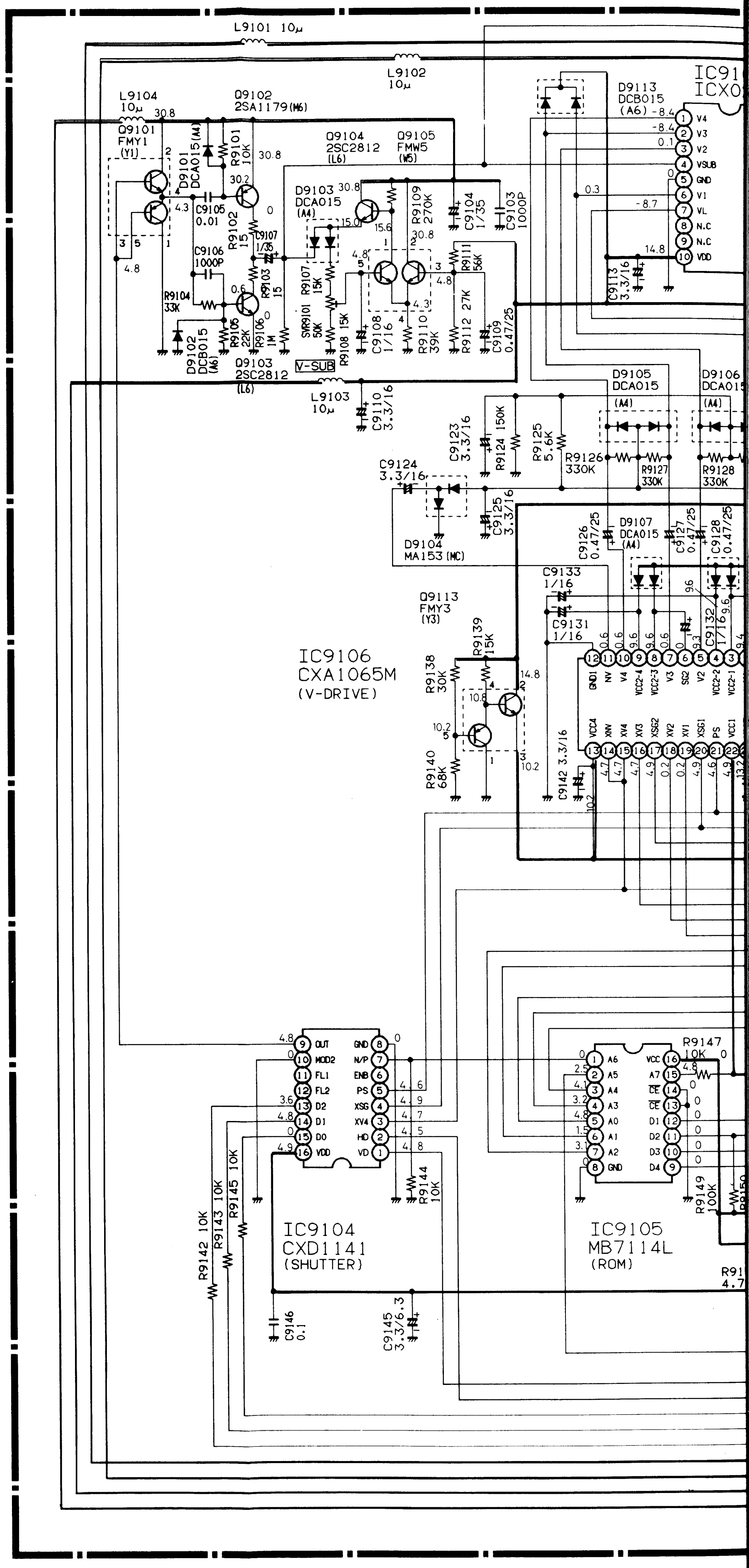
R9149
R9150
R9147
R9151
R9152
R9123
R9130
R9117
R9131
R9181
R9182
R9162
R9163
R9171
R9168
R9169
C9138
C9137
C9193
C9190
C9159
C9199
C9120
C9175
D9112
D9107
D9108
D9110
D9109
D9113
D9115
D9116
Q9114
D9106

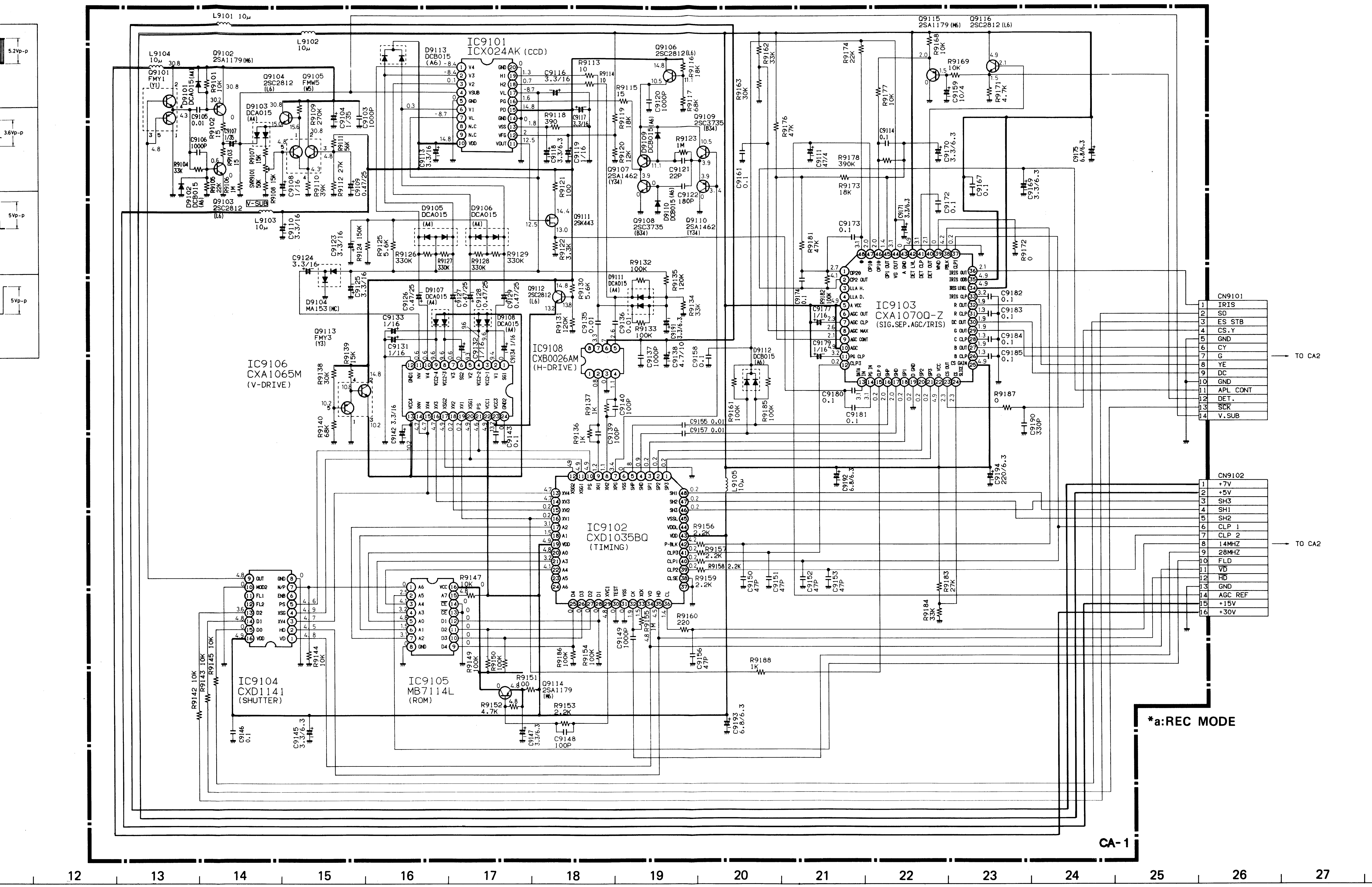
CA-1 BOARD (CAMERA)




L9101 10μ
L9102 10μ
L9104 10μ
Q9101 FMY1 (Y1)
Q9102 2SA1179(M6)
D9101 DCA015(A4)
R9101 10K
C9105 0.01
C9106 1000P
R9104 33K
D9102 DCB015 (A6)
R9105 22K
R9106 1M
R9102 15
C9107 1/35
R9103 15
Q9103 2SC2812 (L6)
Q9104 2SC2812 (L6)
Q9105 FMW5 (W5)
D9103 DCA015 (A4)
R9107 15K
SW9101 5K
R9108 15K
V-SUB
C9108 1/16
R9109 270K
R9110 39K
R9111 56K
R9112 27K
C9104 1/35
C9103 1000P
C9109 0.47/25
D9113 DCB015 (A6)
IC91
ICX0
C9113 3.3/16
L9103 10μ
C9110 3.3/16
D9105 DCA015 (A4)
D9106 DCA015 (A4)
R9124 150K
C9123 3.3/16
R9125 5.6K
R9126 330K
R9127 330K
R9128 330K
C9124 3.3/16
C9125 3.3/16
D9104 MA153 (MC)
D9107 DCA015 (A4)
C9126 0.47/25
C9127 0.47/25
C9128 0.47/25
C9133 1/16
C9131 1/16
C9132 1/16
Q9113 FMY3 (Y3)
R9138 30K
R9139 15K
R9140 68K
C9142 3.3/16
IC9106
CXA1065M
(V-DRIVE)
IC9104
CXD1141
(SHUTTER)
IC9105
MB7114L
(ROM)
R9142 10K
R9143 10K
R9145 10K
R9144 10K
R9147 10K
R9149 100K
C9146 0.1
C9145 3.3/6.3
R91 4.7
OUT
MOD2
FL1
FL2
D2
D1
D0
VDD
GND
N/P
ENB
PS
XSG
XV4
HD
VD
A6
A5
A4
A3
A0
A1
A2
GND
VCC
A7
D1
D2
D3
D4
V4
V3
V2
VSUB
GND
V1
VL
N.C
N.C
VDD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CA-1 CIRCUIT



IC9101 ICX024AK (CCD)
IC9102 CXD1035BQ (TIMING)
IC9103 CXA1070Q-Z (SIG.SEP.AGC/IRIS)
IC9104 CXD1141 (SHUTTER)
IC9105 MB7114L (ROM)
IC9106 CXA1065M (V-DRIVE)
IC9108 CXB0026AM (H-DRIVE)
Q9101 FMY1
Q9102 2SA1179(M6)
Q9103 2SC2812 (L6)
Q9104 2SC2812 (L6)
Q9105 FMW5 (W5)
Q9106 2SC2812 (L6)
Q9107 2SA1462 (Y34)
Q9108 2SC3735 (B34)
Q9109 2SC3735 (B34)
Q9110 2SA1462 (Y34)
Q9111 2SK443
Q9112 2SC2812 (L6)
Q9113 FMY3 (Y3)
Q9114 2SA1179 (M6)
Q9115 2SA1179 (M6)
Q9116 2SC2812 (L6)
L9101 10μ
L9102 10μ
L9103 10μ
L9104 10μ
L9105 10μ
V-SUB
5.2Vp-p
3.6Vp-p
5Vp-p
5Vp-p
CN9101
1 IRIS
2 SO
3 ES STB
4 CS.Y
5 GND
6 CY
7 G
8 YE
9 DC
10 GND
11 APL CONT
12 DET.
13 SCK
14 V.SUB
TO CA2
CN9102
1 +7V
2 +5V
3 SH3
4 SH1
5 SH2
6 CLP 1
7 CLP 2
8 14MHZ
9 28MHZ
10 FLD
11 VD
12 HD
13 GND
14 AGC REF
15 +15V
16 +30V
TO CA2
*a:REC MODE
CA-1
12
13
14
15
16
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19
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23
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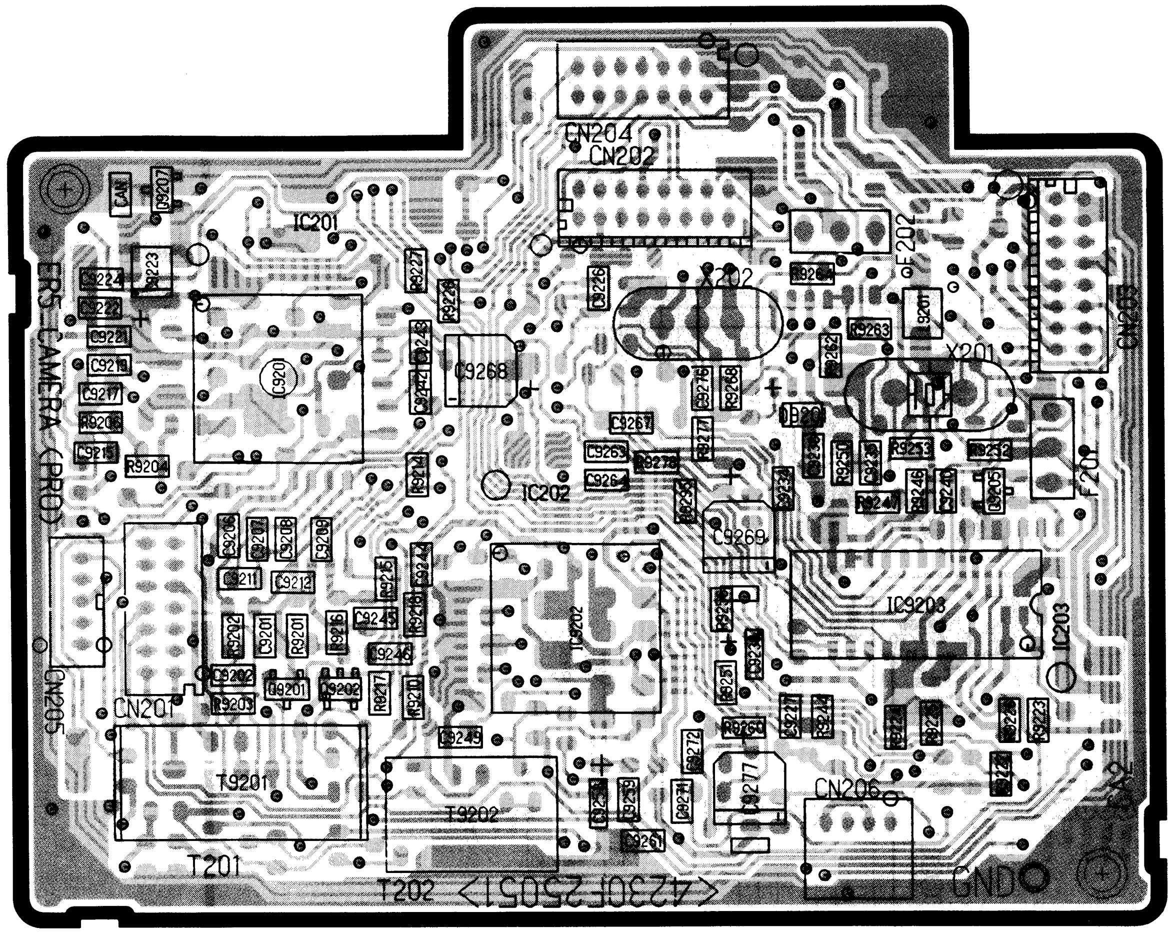
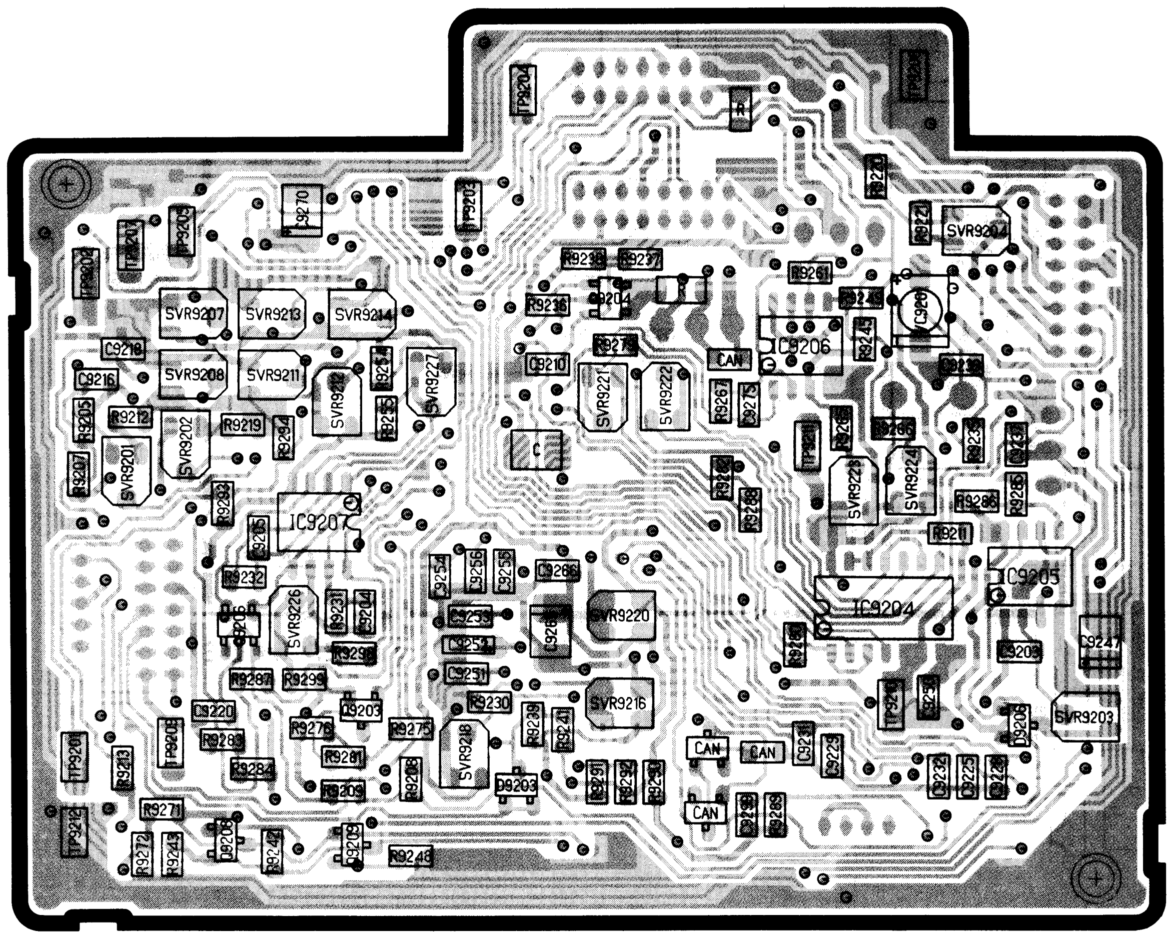
26
27

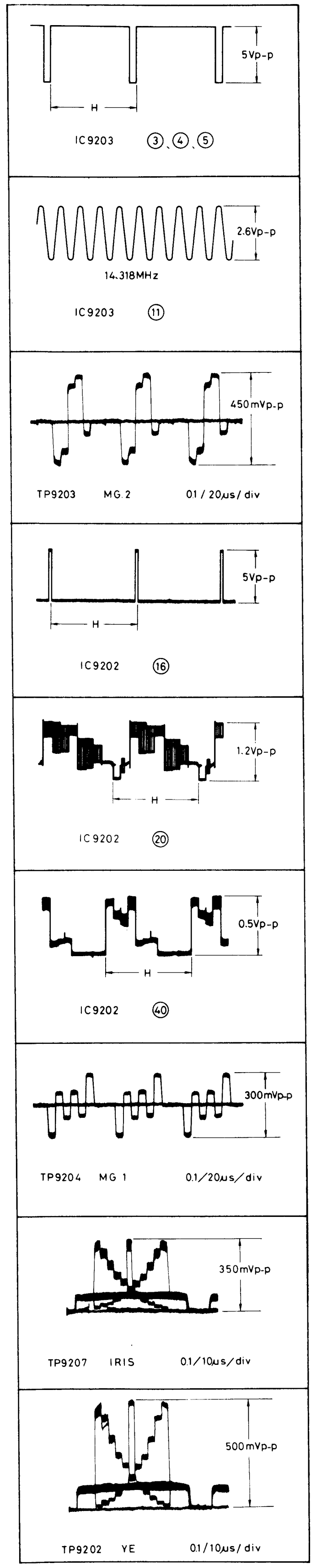
CA-2 BOARD SIDE A

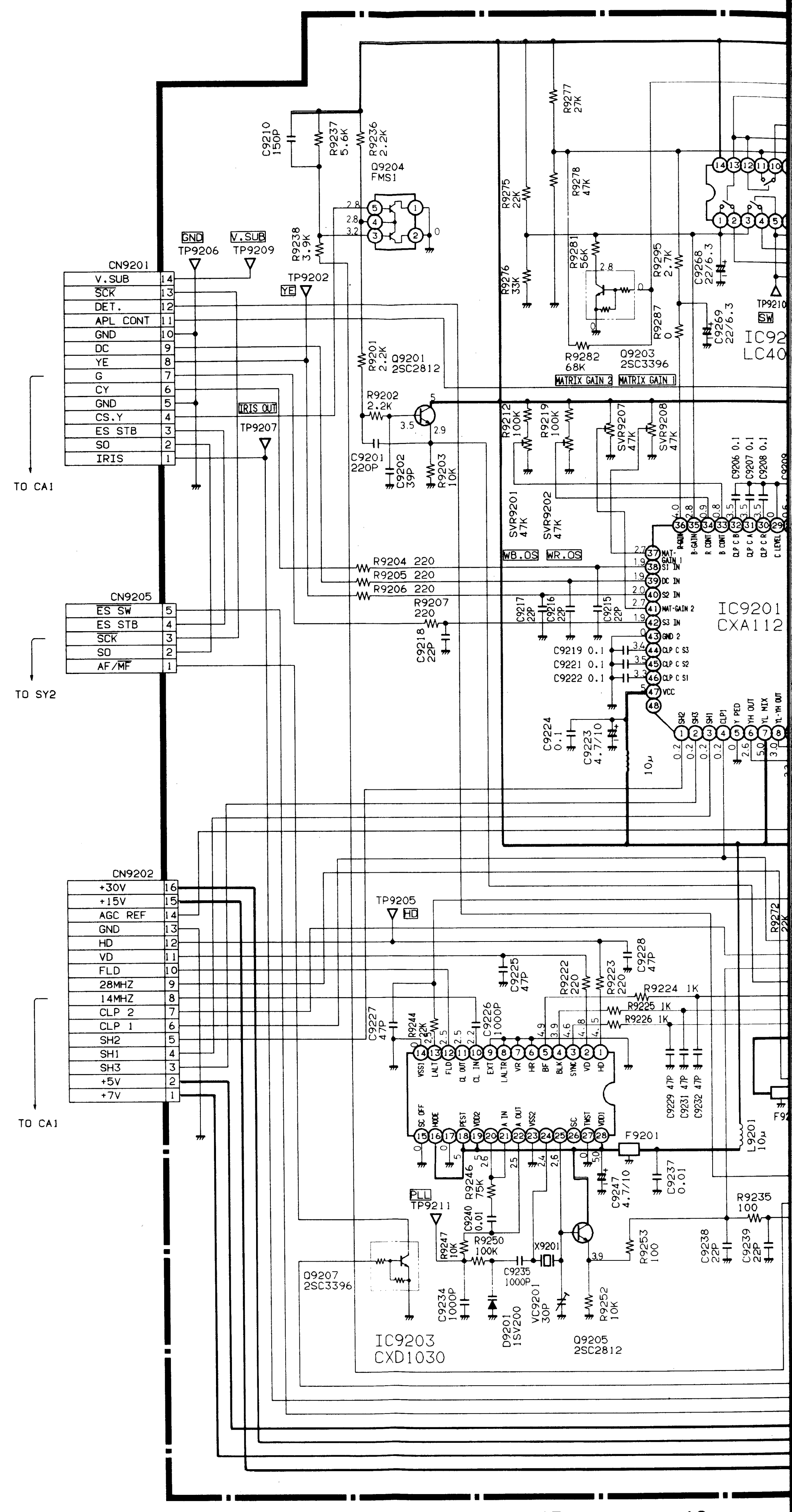

CN204
CN202
IC201
X202
X201
IC9201
IC202
IC9202
IC9203
IC203
CN203
CN201
CN205
CN206
T9201
T9202
T201
T202
F201
GND
ER5 CAMERA (PRO)
<4230F25051>

CA-2 BOARD SIDE B

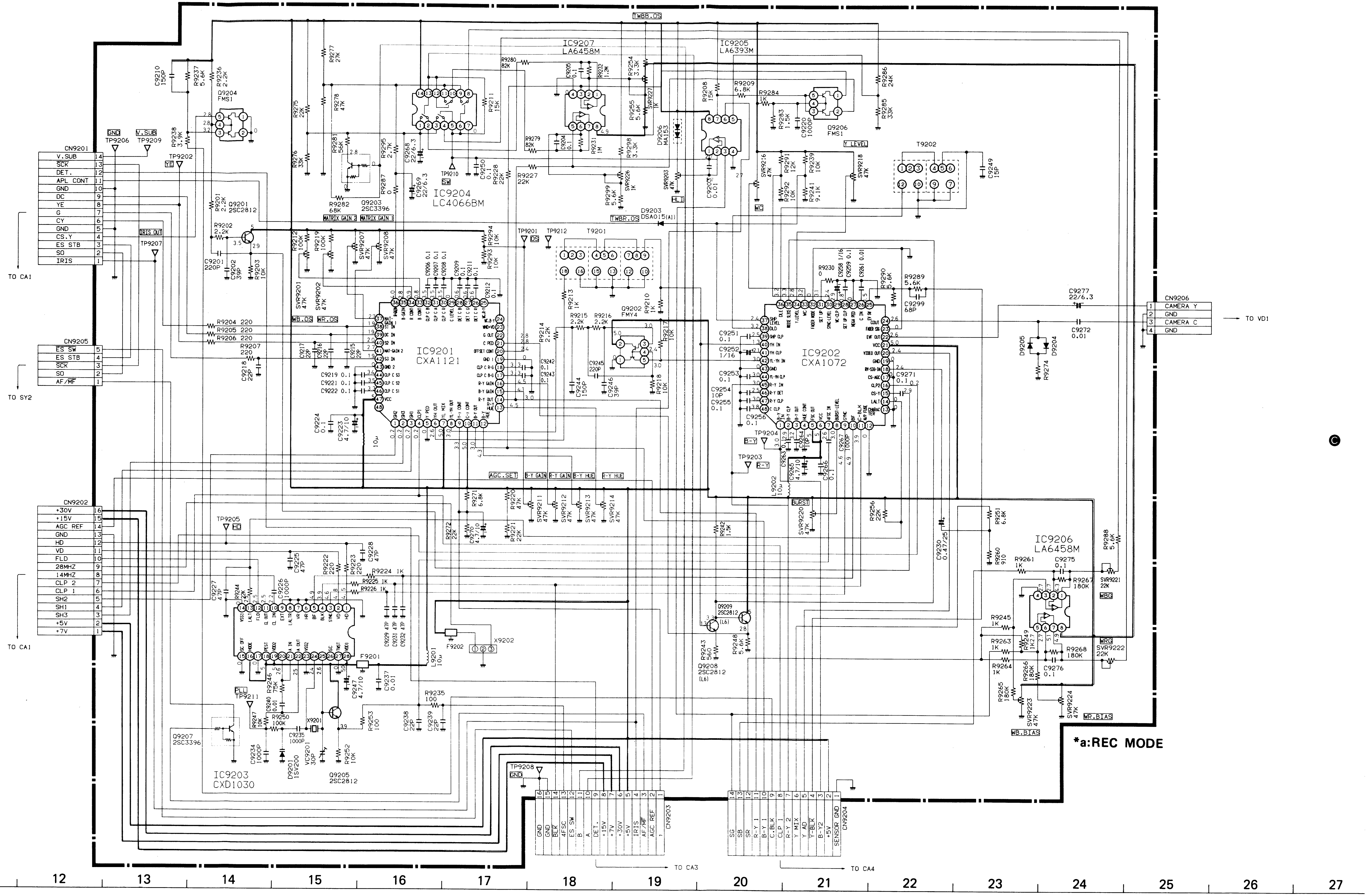

SVR9207
SVR9213
SVR9214
SVR9208
SVR9211
SVR9201
SVR9202
SVR9221
SVR9222
SVR9226
SVR9220
SVR9216
SVR9218
SVR9223
SVR9224
SVR9203
SVR9227
IC9207
IC9204
IC9205
CAN

CA-2 BOARD (CAMERA)




CN9201
V.SUB 14
SCK 13
DET. 12
APL CONT 11
GND 10
DC 9
YE 8
G 7
CY 6
GND 5
CS.Y 4
ES STB 3
SO 2
IRIS 1
TO CA1
CN9205
ES SW 5
ES STB 4
SCK 3
SO 2
AF/MF 1
TO SY2
CN9202
+30V 16
+15V 15
AGC REF 14
GND 13
HD 12
VD 11
FLD 10
28MHZ 9
14MHZ 8
CLP 2 7
CLP 1 6
SH2 5
SH1 4
SH3 3
+5V 2
+7V 1
TO CA1
GND TP9206
V.SUB TP9209
YE TP9202
IRIS OUT TP9207
HD TP9205
PLL TP9211
C9210 150P
R9237 5.6K
R9236 2.2K
Q9204 FMS1
R9238 3.9K
R9201 2.2K
Q9201 2SC2812
R9202 2.2K
C9201 220P
C9202 39P
R9203 10K
R9275 22K
R9276 33K
R9278 47K
R9277 27K
R9281 56K
R9282 68K
Q9203 2SC3396
R9287 0
R9295 2.7K
C9268 22/6.3
C9269 22/6.3
MATRIX GAIN 2
MATRIX GAIN 1
R9212 100K
R9219 100K
SVR9207 47K
SVR9208 47K
SVR9201 47K
SVR9202 47K
WB.OS
WR.OS
R9204 220
R9205 220
R9206 220
R9207 220
C9218 22P
C9217 22P
C9216 22P
C9215 22P
C9219 0.1
C9221 0.1
C9222 0.1
C9224 0.1
C9223 4.7/10
10μ
IC9201
CXA112
IC92
LC40
TP9210
SW
C9227 47P
R9244 22K
C9226 1000P
C9225 47P
R9222 220
R9223 220
C9228 47P
R9224 1K
R9225 1K
R9226 1K
C9229 47P
C9231 47P
C9232 47P
F9201
L9201 10μ
C9237 0.01
R9235 100
C9247 4.7/10
R9246 75K
C9240 0.01
R9247 10K
R9250 100K
C9235 1000P
X9201
R9253 100
R9252 10K
C9238 22P
C9239 22P
C9234 1000P
D9201 1SV200
VC9201 30P
Q9207 2SC3396
Q9205 2SC2812
IC9203
CXD1030
R9272 22K

CA-2 CIRCUIT


CN9201
V.SUB
SCK
DET.
APL CONT
GND
DC
YE
G
CY
GND
CS.Y
ES STB
SO
IRIS
TO CA1
CN9205
ES SW
ES STB
SCK
SO
AF/MF
TO SY2
CN9202
+30V
+15V
AGC REF
GND
HD
VD
FLD
28MHZ
14MHZ
CLP 2
CLP 1
SH2
SH1
SH3
+5V
+7V
TO CA1
IC9207 LA6458M
IC9205 LA6393M
IC9204 LC4066BM
IC9201 CXA1121
IC9202 CXA1072
IC9203 CXD1030
IC9206 LA6458M
Q9201 2SC2812
Q9202 FMY4
Q9203 2SC3396
Q9204 FMS1
Q9205 2SC2812
Q9206 FMS1
Q9207 2SC3396
Q9208 2SC2812
Q9209 2SC2812
T9201
T9202
X9201
X9202
F9201
F9202
L9201 10µ
L9202 10µ
D9201 1SV200
D9203 DSA015(A1)
D9206 MA153
TWBB.OS
TWBR.OS
Y LEVEL
MATRIX GAIN 2
MATRIX GAIN 1
IRIS OUT
WB.OS
WR.OS
AGC.SET
B-Y GAIN
R-Y GAIN
B-Y HUE
R-Y HUE
BURST
WBG
WRG
WB.BIAS
WR.BIAS
PLL
HD
DS
HLI
WC
CN9206
CAMERA Y
GND
CAMERA C
GND
TO VD1
CN9203
GND
GND
BLK
4FSC
ES SW
B
A
DET.
+15V
+7V
+30V
+5V
IRIS
AF/MF
AGC REF
TO CA3
CN9204
SG
SB
SR
R-Y 1
B-Y 1
C.BLK
CLP 1
R-Y 2
Y MIX
Y AD
Y-BLK
B-Y2
+5V
SENSOR GND
TO CA4
11
12
13
14
15
16
17
18
19
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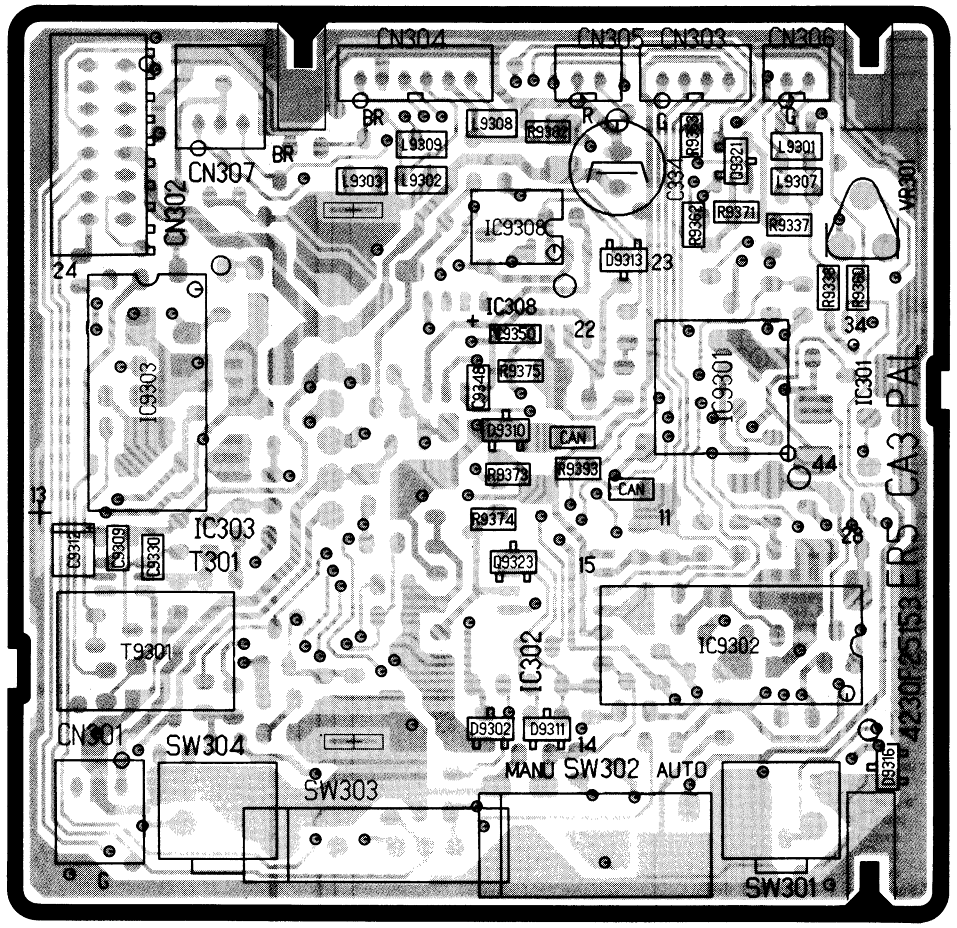
21
22
23
24
25
26
27
C

*a:REC MODE

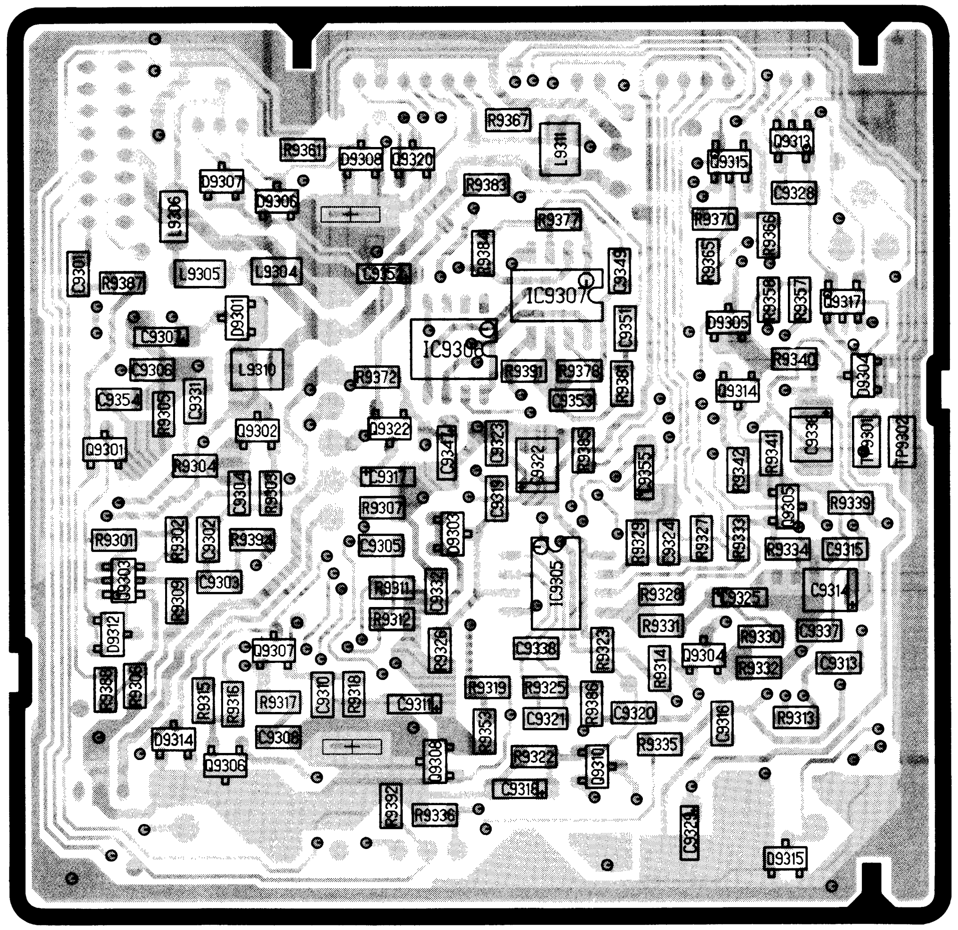
K J I H G F E D C B A

CA-3 BOARD SIDE A

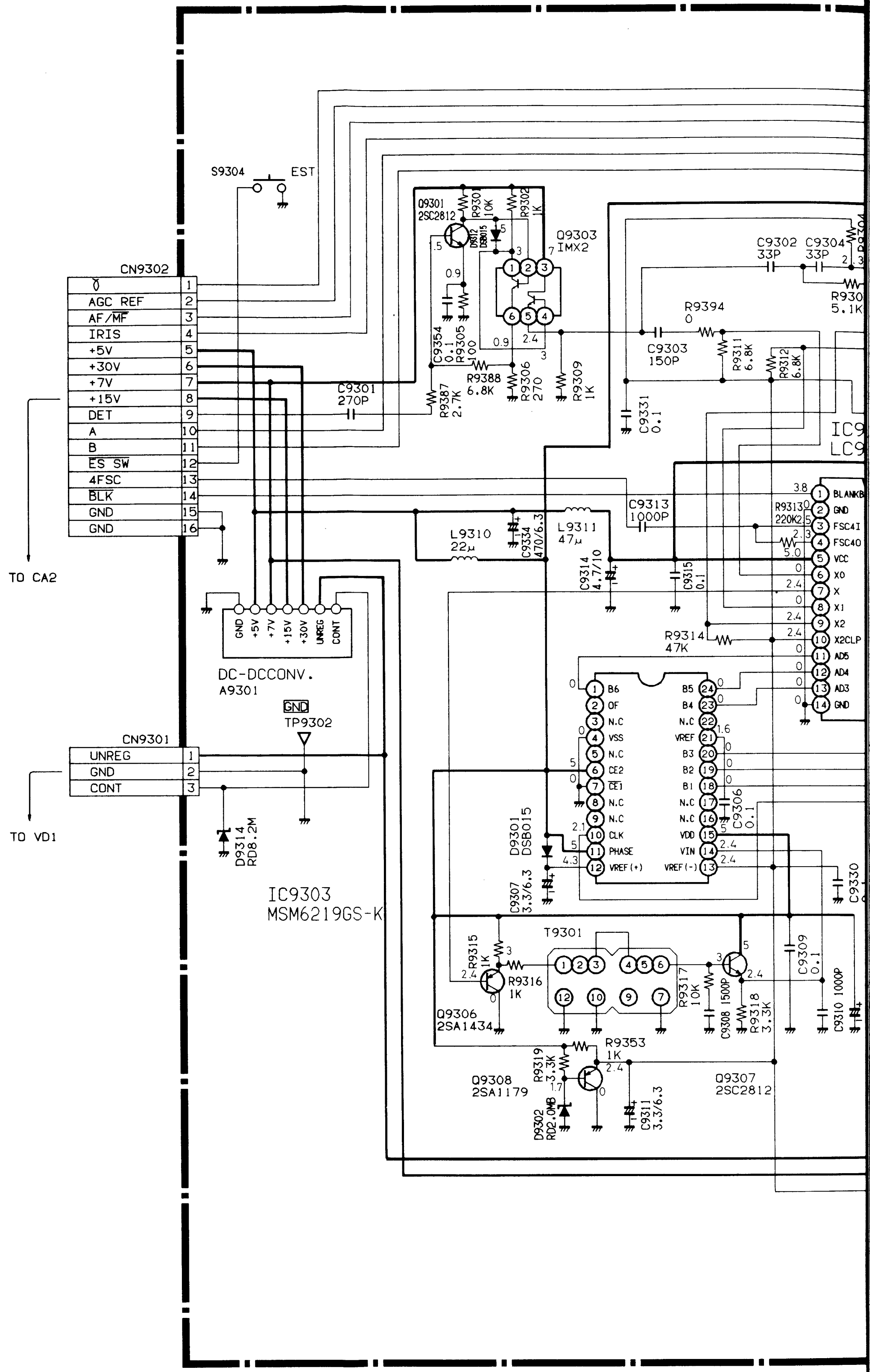


CN304
CN305
CN303
CN306
CN307
CN302
IC9308
IC308
IC9303
IC303
T301
T9301
IC9301
IC301
IC9302
IC302
CN301
SW304
SW303
MANU SW302 AUTO
SW301
VR301
ERS CA3 PAL

CA-3 BOARD SIDE B



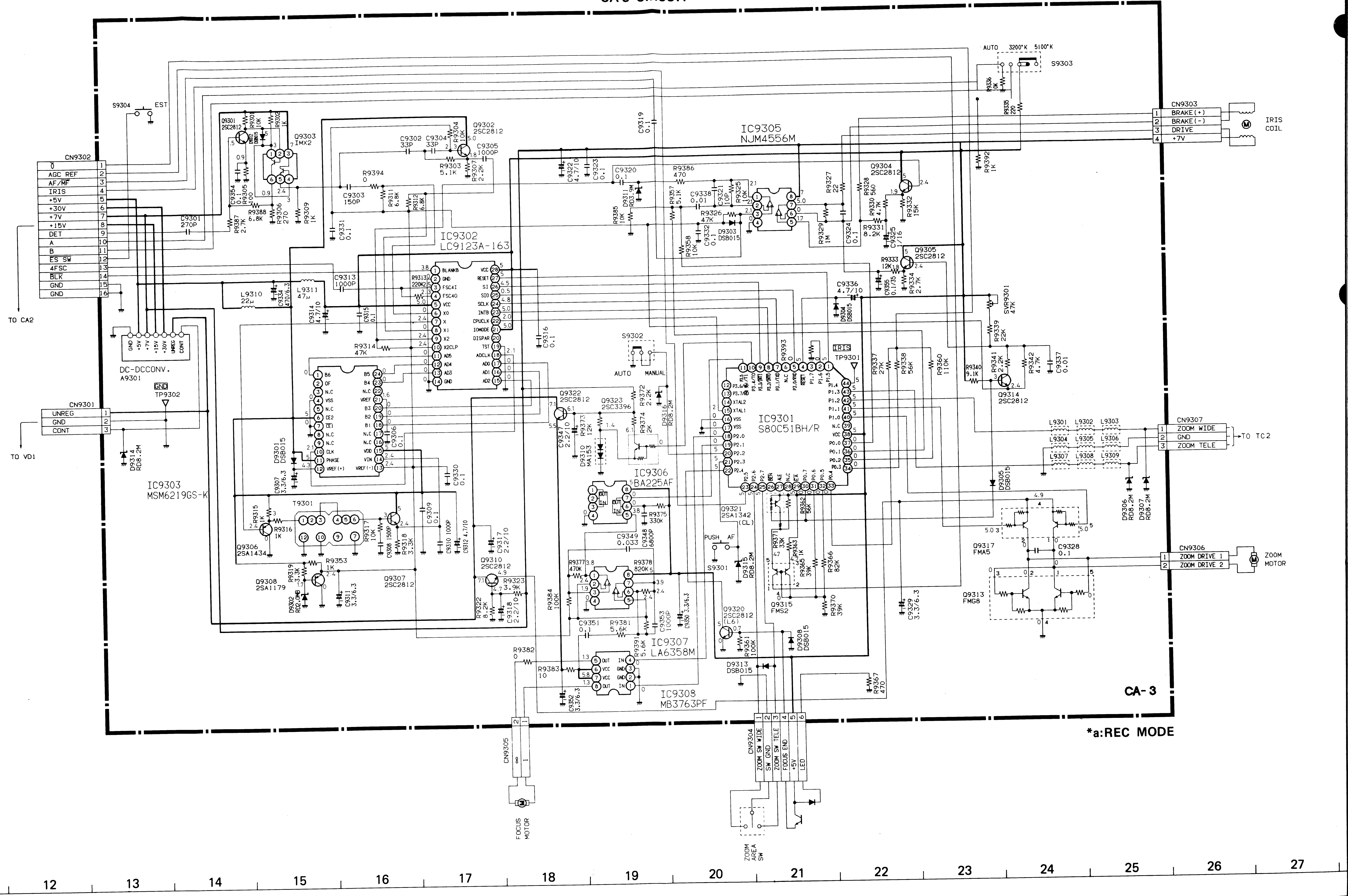
IC9307
IC9306
IC9305
L9310
L9305
L9304



CN9302
AGC REF
AF/MF
IRIS
+5V
+30V
+7V
+15V
DET
A
B
ES SW
4FSC
BLK
GND
GND
TO CA2
S9304
EST
Q9301 2SC2812
Q9303 IMX2
C9302 33P
C9304 33P
R9394 0
C9303 150P
C9301 270P
R9387 2.7K
R9388 6.8K
R9306 270
R9309 1K
R9311 6.8K
R9312 6.8K
C9331 0.1
L9310 22μ
C9334 470/6.3
L9311 47μ
C9313 1000P
C9314 4.7/10
C9315 0.1
R9314 47K
DC-DCCONV.
A9301
GND
+5V
+7V
+15V
+30V
UNREG
CONT
GND
TP9302
CN9301
UNREG
GND
CONT
TO VD1
D9314 RD8.2M
D9301 DSB015
C9307 3.3/6.3
IC9303
MSM6219GS-K
T9301
R9315 1K
R9316 1K
Q9306 2SA1434
R9317 10K
C9308 1500P
R9318 3.3K
C9309 0.1
C9310 1000P
R9319 3.3K
R9353 1K
Q9308 2SA1179
D9302 RD2.0MB
C9311 3.3/6.3
Q9307 2SC2812
C9306 0.1
C9330

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CA-3 CIRCUIT


CN9302
AGC REF
AF/MF
IRIS
+5V
+30V
+7V
+15V
DET
A
B
ES SW
4FSC
BLK
GND
GND
TO CA2
S9304
EST
DC-DCCONV.
A9301
GND
TP9302
CN9301
UNREG
GND
CONT
TO VD1
D9314
RD8.2M
IC9303
MSM6219GS-K
IC9302
LC9123A-163
Q9301
2SC2812
Q9302
2SC2812
Q9303
IMX2
Q9306
2SA1434
Q9307
2SC2812
Q9308
2SA1179
Q9310
2SC2812
T9301
L9310
22μ
L9311
47μ
IC9305
NJM4556M
Q9304
2SC2812
Q9305
2SC2812
Q9314
2SC2812
SVR9301
47K
S9303
AUTO
3200°K
5100°K
CN9303
BRAKE(+)
BRAKE(-)
DRIVE
+7V
IRIS
COIL
S9302
AUTO
MANUAL
IRIS
TP9301
IC9301
S80C51BH/R
Q9322
2SC2812
Q9323
2SC3396
IC9306
BA225AF
D9310
MA153
Q9321
2SA1342
(CL)
PUSH
AF
S9301
Q9320
2SC2812
(L6)
Q9315
FMS2
IC9307
LA6358M
IC9308
MB3763PF
D9313
DSB015
D9308
DSB015
D9305
DSB015
D9306
RD8.2M
D9307
RD8.2M
Q9317
FMA5
Q9313
FMG8
CN9307
ZOOM WIDE
GND
ZOOM TELE
TO TC2
L9301
L9302
L9303
L9304
L9305
L9306
L9307
L9308
L9309
CN9306
ZOOM DRIVE 1
ZOOM DRIVE 2
ZOOM
MOTOR
CN9305
FOCUS
MOTOR
CN9304
ZOOM SW WIDE
SW GND
ZOOM SW TELE
FOCUS END
+5V
LED
ZOOM
AREA
SW
CA-3
11
12
13
14
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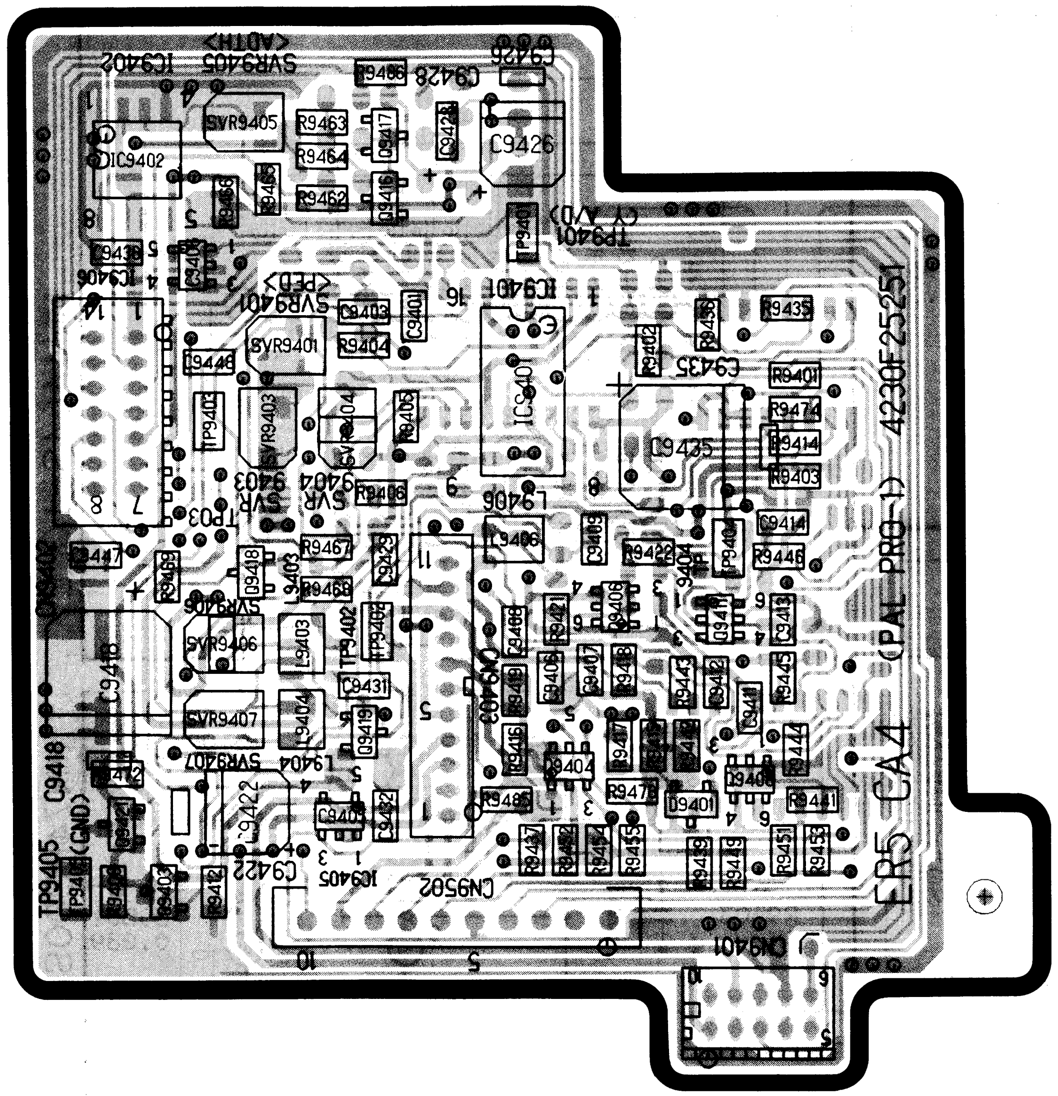
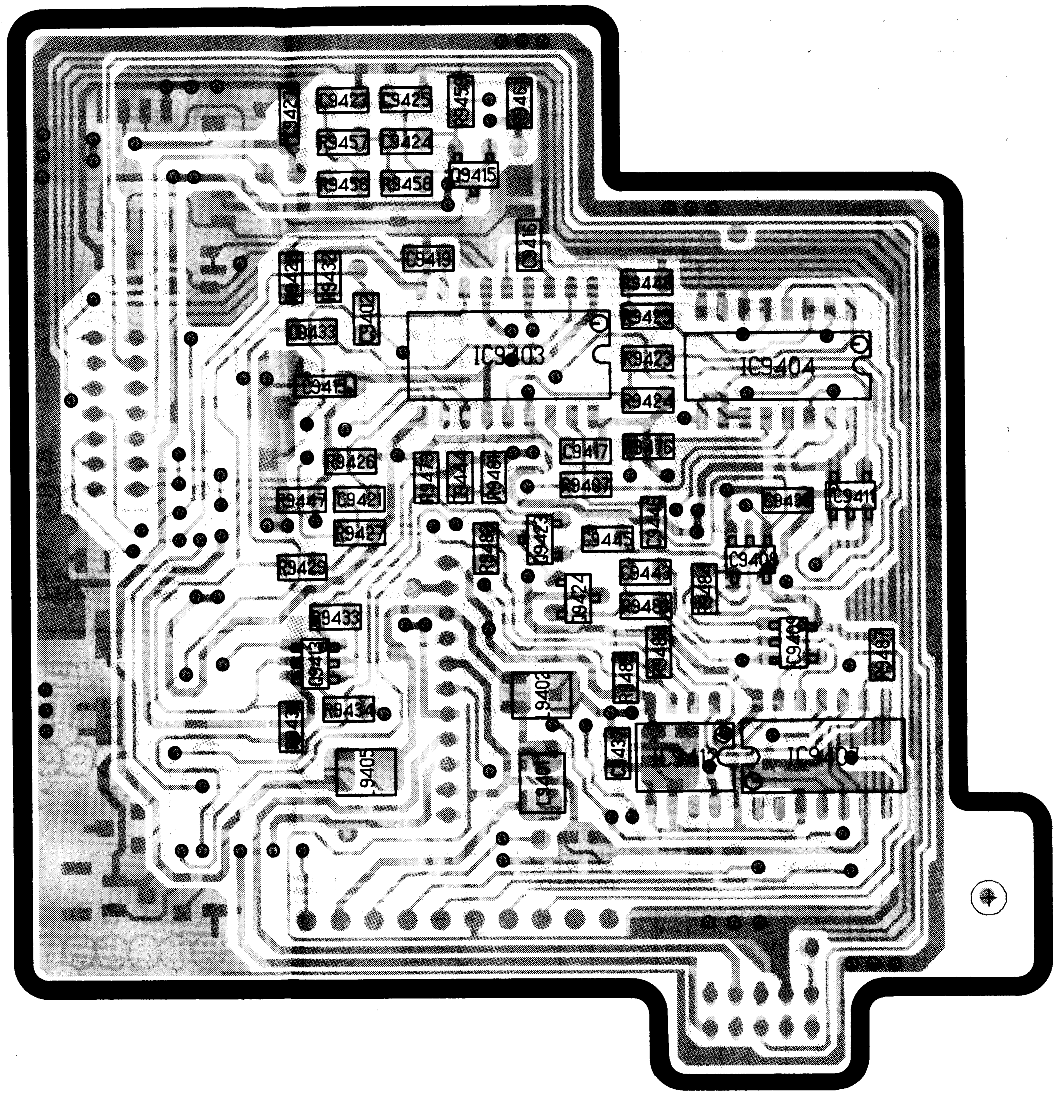
16
17
18
19
20
21
22
23
24
25
26
27

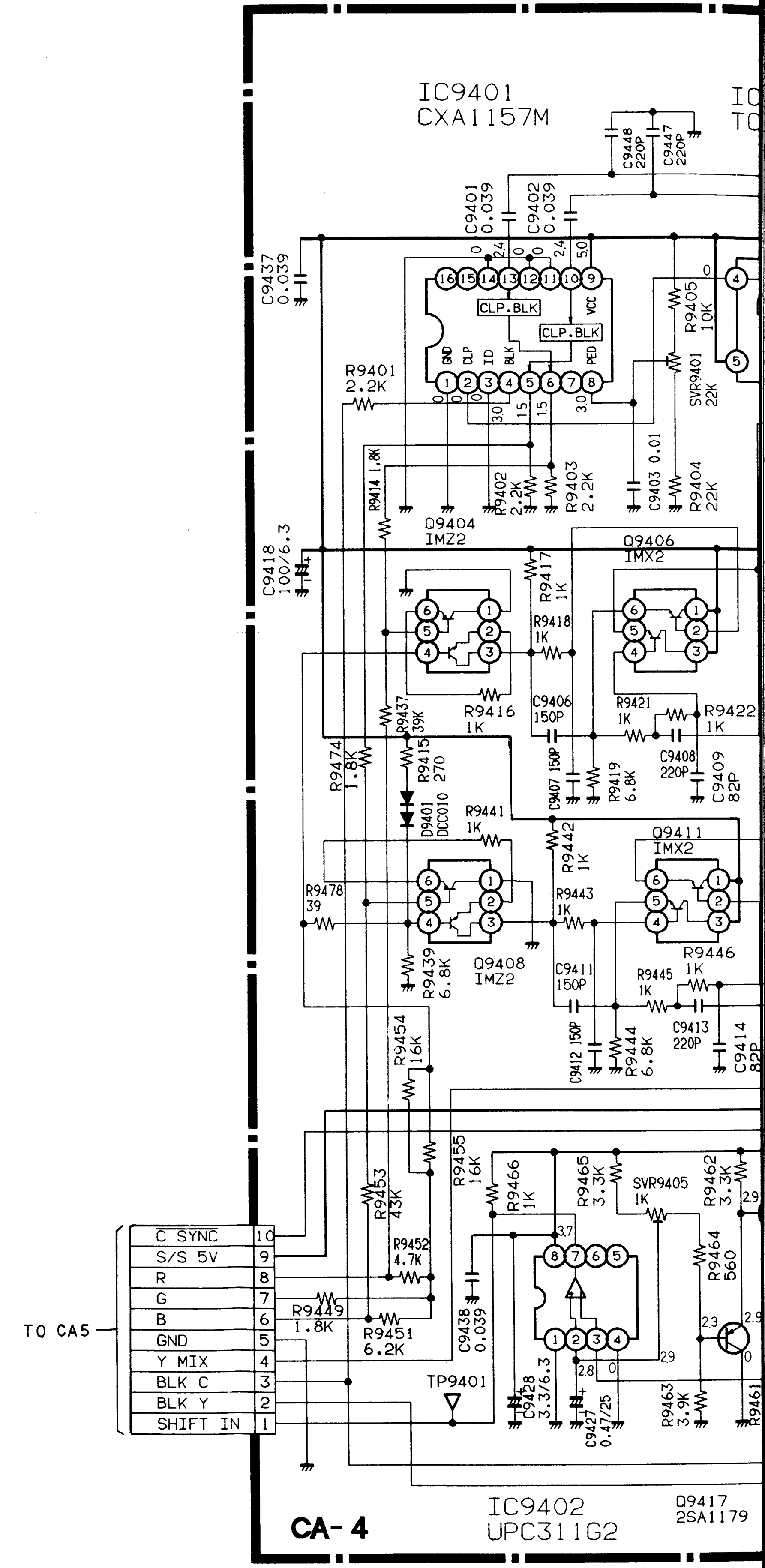
*a:REC MODE

CA-4 BOARD SIDE A


IC9402
SVR9405
<ADTH>
C9426
C9428
TP9401
SVR9401
<PED>
IC9401
C9435
L9406
CN9502
IC9405
D9401
SVR9406
SVR9407
TP9405
(GND)
C9418
ER5 CA-4 (PAL PRO-1) 4230F2525

CA-4 BOARD SIDE B

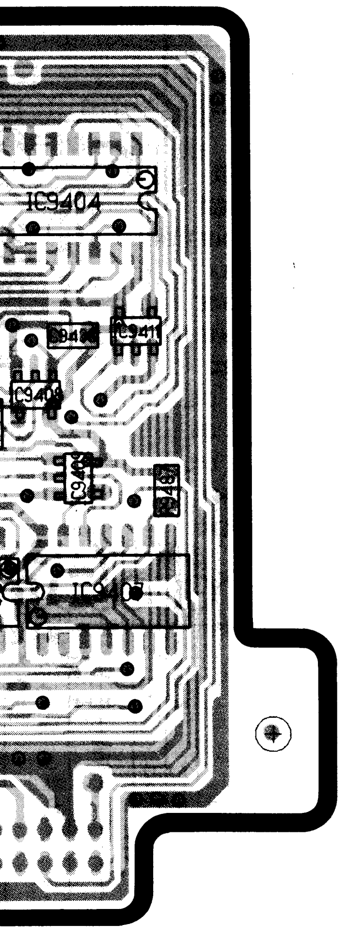

IC9403
IC9404
IC9402
IC9405

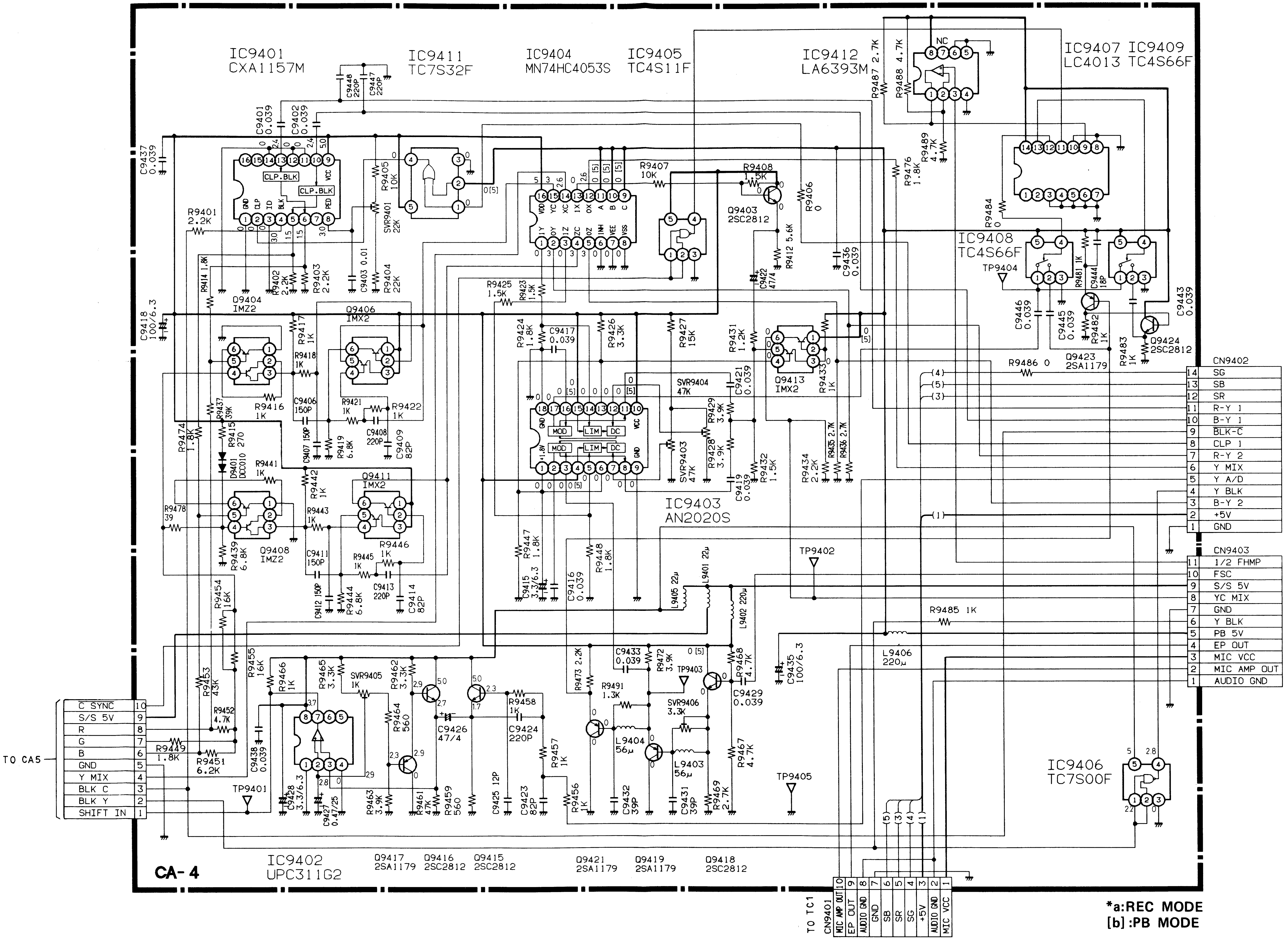

IC9401
CXA1157M
C9437 0.039
C9401 0.039
C9402 0.039
C9448 220P
C9447 220P
CLP.BLK
R9401 2.2K
R9405 10K
SVR9401 22K
R9402 2.2K
R9403 2.2K
C9403 0.01
R9404 22K
R9414 1.8K
Q9404 IMZ2
Q9406 IMX2
C9418 100/6.3
R9417 1K
R9418 1K
R9416 1K
C9406 150P
R9421 1K
R9422 1K
C9408 220P
C9409 82P
R9474 1.8K
R9437 39K
R9415 270
C9407 150P
R9419 6.8K
D9401 DCC010
R9441 1K
R9442 1K
Q9411 IMX2
R9478 39
R9443 1K
R9439 6.8K
Q9408 IMZ2
C9411 150P
R9445 1K
R9446 1K
C9412 150P
R9444 6.8K
C9413 220P
C9414 82P
R9454 16K
R9455 16K
R9453 43K
R9466 1K
R9465 3.3K
SVR9405 1K
R9462 3.3K
R9452 4.7K
R9464 560
C SYNC
S/S 5V
R
G
B
GND
Y MIX
BLK C
BLK Y
SHIFT IN
TO CA5
R9449 1.8K
R9451 6.2K
C9438 0.039
C9428 3.3/6.3
C9427 0.47/25
TP9401
R9463 3.9K
R9461
CA-4
IC9402
UPC311G2
Q9417
2SA1179

K J I H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CA-4 CIRCUIT

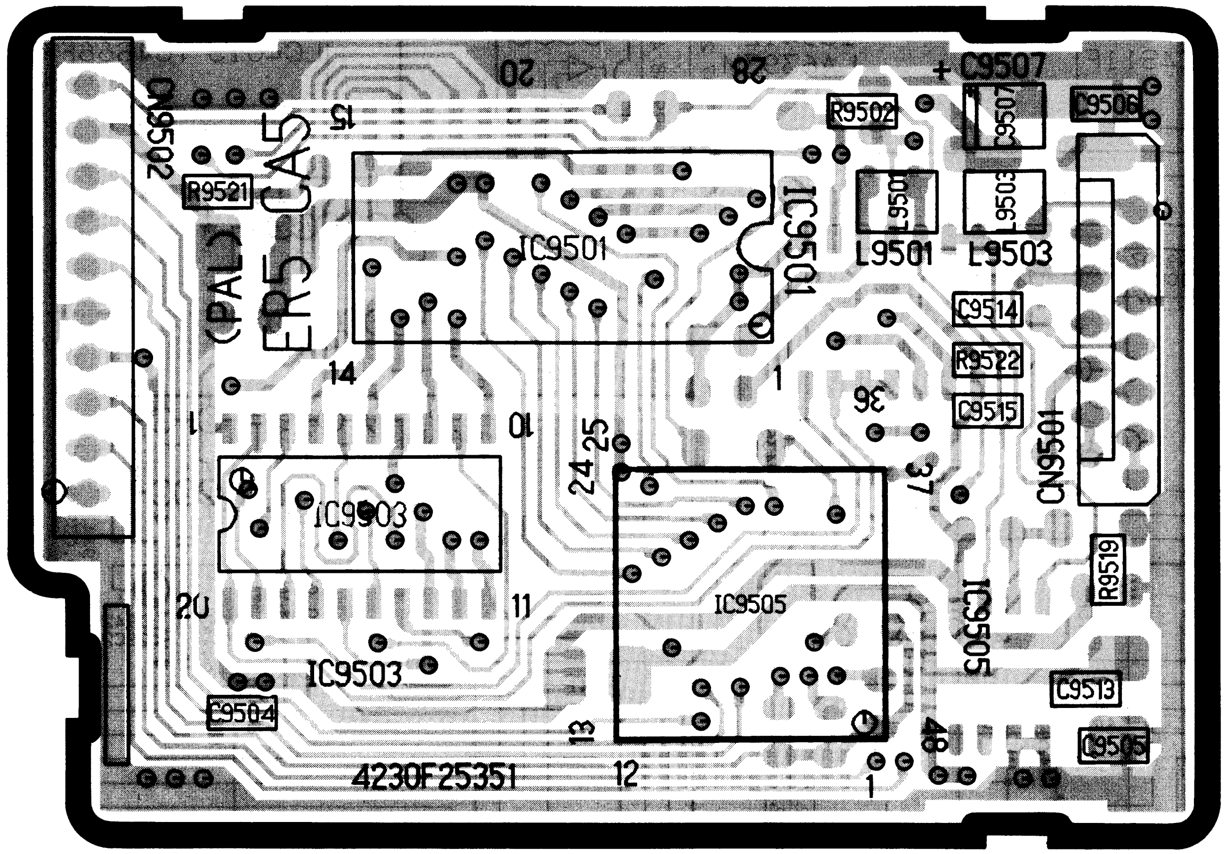

IC9404
IC9405


IC9401
CXA1157M
IC9411
TC7S32F
IC9404
MN74HC4053S
IC9405
TC4S11F
IC9412
LA6393M
IC9407 IC9409
LC4013 TC4S66F
IC9408
TC4S66F
IC9403
AN2020S
IC9406
TC7S00F
IC9402
UPC311G2
Q9403
2SC2812
Q9404
IMZ2
Q9406
IMX2
Q9408
IMZ2
Q9411
IMX2
Q9413
IMX2
Q9423
2SA1179
Q9424
2SC2812
Q9417 2SA1179
Q9416 2SC2812
Q9415 2SC2812
Q9421 2SA1179
Q9419 2SA1179
Q9418 2SC2812
TP9401
TP9402
TP9403
TP9404
TP9405
CN9402
14 SG
13 SB
12 SR
11 R-Y 1
10 B-Y 1
9 BLK-C
8 CLP 1
7 R-Y 2
6 Y MIX
5 Y A/D
4 Y BLK
3 B-Y 2
2 +5V
1 GND
CN9403
11 1/2 FHMP
10 FSC
9 S/S 5V
8 YC MIX
7 GND
6 Y BLK
5 PB 5V
4 EP OUT
3 MIC VCC
2 MIC AMP OUT
1 AUDIO GND
TO CA5
10 C SYNC
9 S/S 5V
8 R
7 G
6 B
5 GND
4 Y MIX
3 BLK C
2 BLK Y
1 SHIFT IN
TO TC1
CN9401
10 MIC AMP OUT
9 EP OUT
8 AUDIO GND
7 GND
6 SB
5 SR
4 SG
3 +5V
2 AUDIO GND
1 MIC VCC
CA-4

*a:REC MODE
[b] :PB MODE

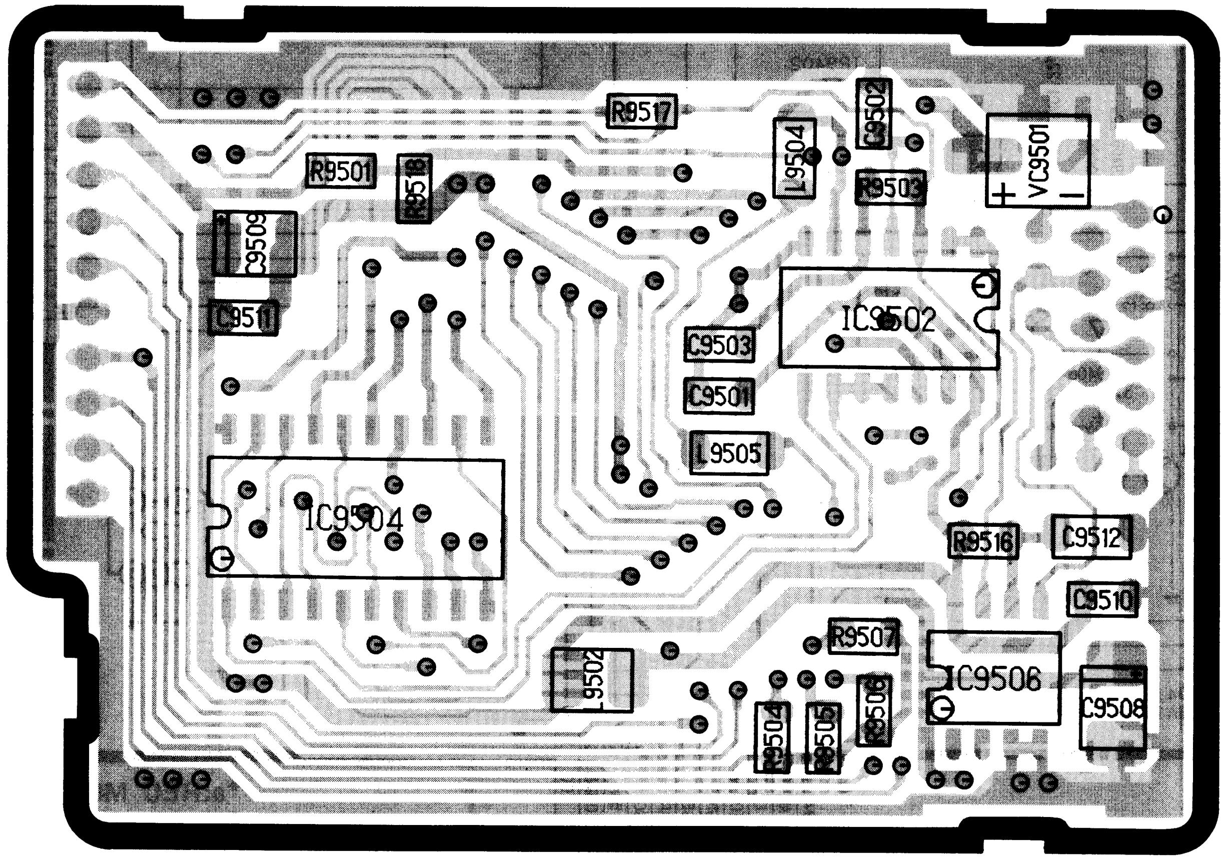
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

CA-5 BOARD SIDE A

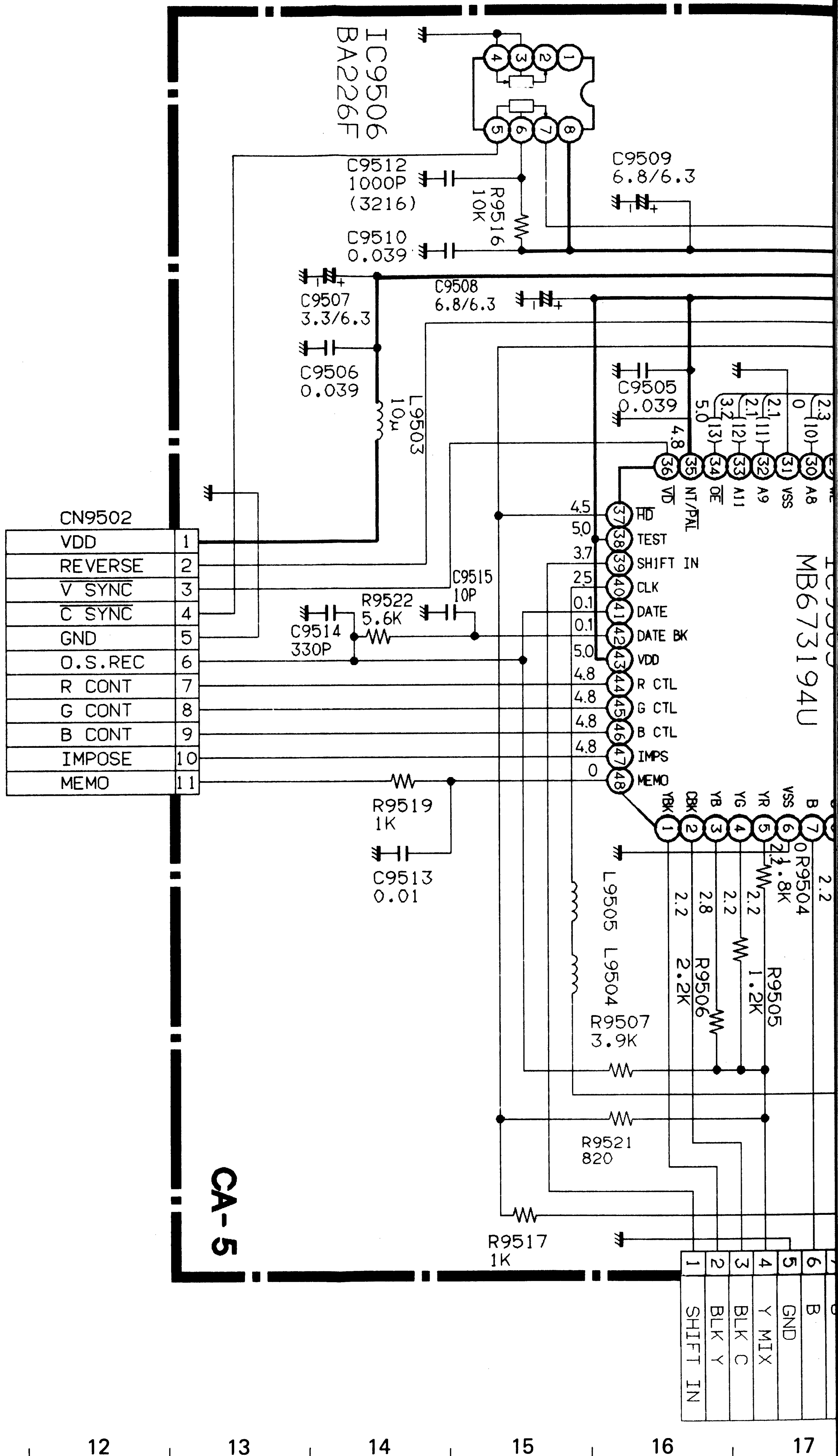


CN9502
C9507
R9502
C9506
R9521
IC9501
L9501
L9503
C9514
R9522
C9515
CN9501
(PAL)
ER5 CA5
IC9503
IC9505
R9519
C9513
C9504
C9505
4230F25351

CA-5 BOARD SIDE B

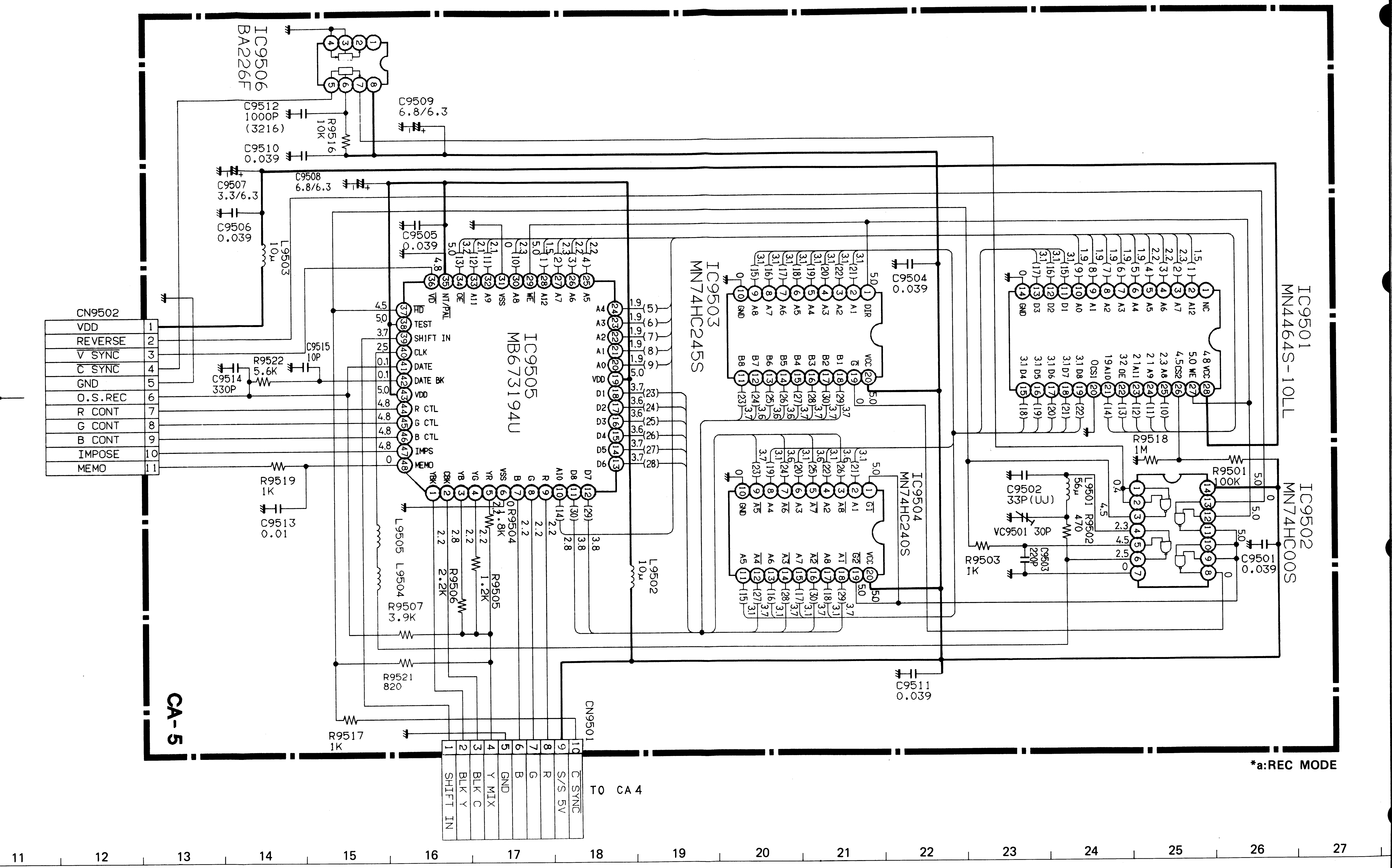


R9517
R9501
R9518
C9502
L9504
R9503
VC9501
C9509
C9511
IC9502
C9503
C9501
L9505
IC9504
R9516
C9512
C9510
R9507
L9502
IC9506
R9504
R9506
R9508
C9508



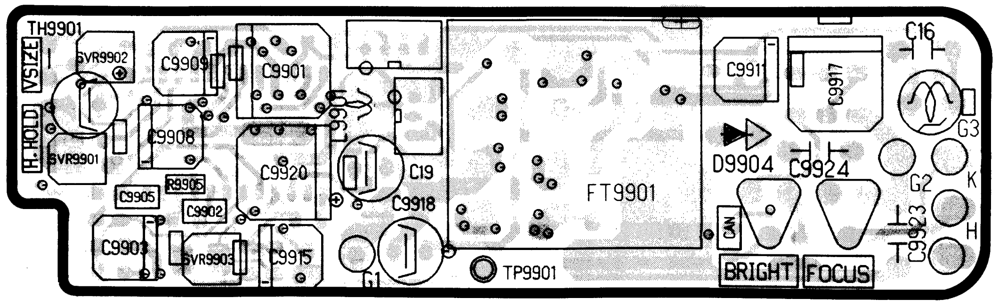
CA-5
IC9506
BA226F
C9512
1000P
(3216)
R9516
10K
C9509
6.8/6.3
C9510
0.039
C9507
3.3/6.3
C9508
6.8/6.3
C9506
0.039
L9503
10μ
C9505
0.039
MB673194U
CN9502
1 VDD
2 REVERSE
3 V SYNC
4 C SYNC
5 GND
6 O.S.REC
7 R CONT
8 G CONT
9 B CONT
10 IMPOSE
11 MEMO
TO SY-2
C9515
10P
R9522
5.6K
C9514
330P
R9519
1K
C9513
0.01
HD
TEST
SHIFT IN
CLK
DATE
DATE BK
VDD
R CTL
G CTL
B CTL
IMPS
MEMO
VD
NT/PAL
OE
A11
A9
VSS
A8
YBK
CBK
YB
YG
YR
VSS
L9505
L9504
R9504
2.8K
R9507
3.9K
R9506
2.2K
R9505
1.2K
R9521
820
R9517
1K
1 SHIFT IN
2 BLK Y
3 BLK C
4 Y MIX
5 GND
6 B

CA-5 CIRCUIT

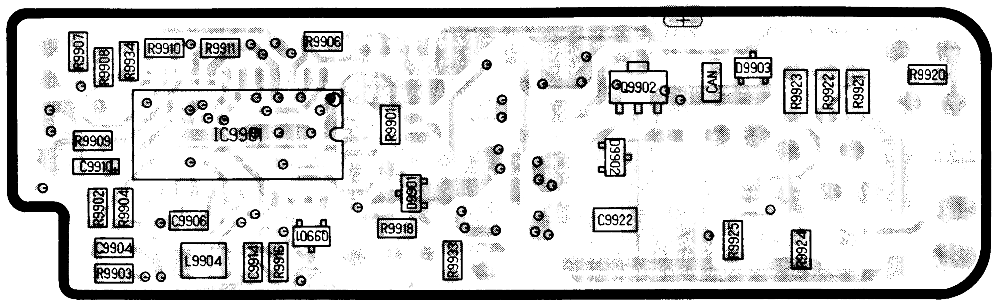

CA-5
IC9506
BA226F
C9512
1000P
(3216)
R9516
10K
C9509
6.8/6.3
C9510
0.039
C9507
3.3/6.3
C9508
6.8/6.3
C9506
0.039
L9503
10μ
C9505
0.039
IC9505
MB673194U
IC9503
MN74HC245S
IC9504
MN74HC240S
IC9501
MN4464S-10LL
IC9502
MN74HC00S
C9504
0.039
CN9502
VDD
REVERSE
V SYNC
C SYNC
GND
O.S.REC
R CONT
G CONT
B CONT
IMPOSE
MEMO
C9515
10P
R9522
5.6K
C9514
330P
R9519
1K
C9513
0.01
L9505
L9504
R9504
1.8K
R9506
2.2K
R9505
1.2K
R9507
3.9K
R9521
820
R9517
1K
L9502
10μ
C9511
0.039
R9518
1M
R9501
100K
C9502
33P(UJ)
L9501
56μ
R9502
470
VC9501 30P
R9503
1K
C9503
220P
C9501
0.039
CN9501
SHIFT IN
BLK Y
BLK C
Y MIX
GND
B
G
R
S/S 5V
C SYNC
TO CA4
HD
TEST
SHIFT IN
CLK
DATE
DATE BK
VDD
R CTL
G CTL
B CTL
IMPS
MEMO
VD
NT/PAL
OE
A11
A9
VSS
A8
WE
A12
A7
A6
A5
A4
A3
A2
A1
A0
D1
D2
D3
D4
D5
D6
D7
D8
A10
YBK
CBK
YB
YG
YR
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

*a:REC MODE

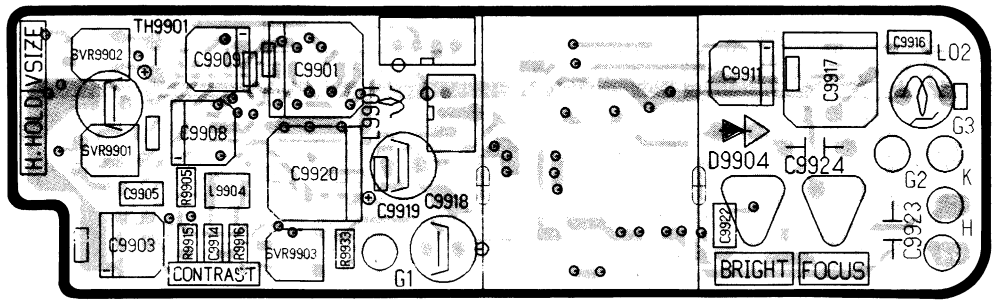
VF-1 BOARD SIDE A


TH9901
SVR9902
V.SIZE
H.HOLD
SVR9901
C9909
C9901
C9908
C9920
C19
C9918
C9905
R9905
C9902
C9903
SVR9903
C9915
G1
TP9901
FT9901
C9911
C9917
C16
D9904
C9924
CAN
G2
G3
K
H
C9923
BRIGHT
FOCUS

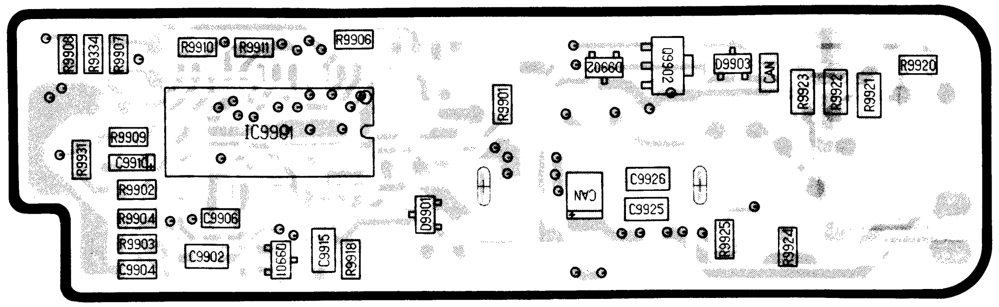
VF-1 BOARD SIDE B


R9907
R9908
R9934
R9910
R9911
R9906
IC9901
R9909
C9910
R9902
R9904
C9906
C9904
R9903
L9904
C9914
C9916
1066D
R9901
D9901
R9918
R9933
C9902
2066D
C9922
CAN
D9903
R9923
R9922
R9921
R9920
R9925
R9924

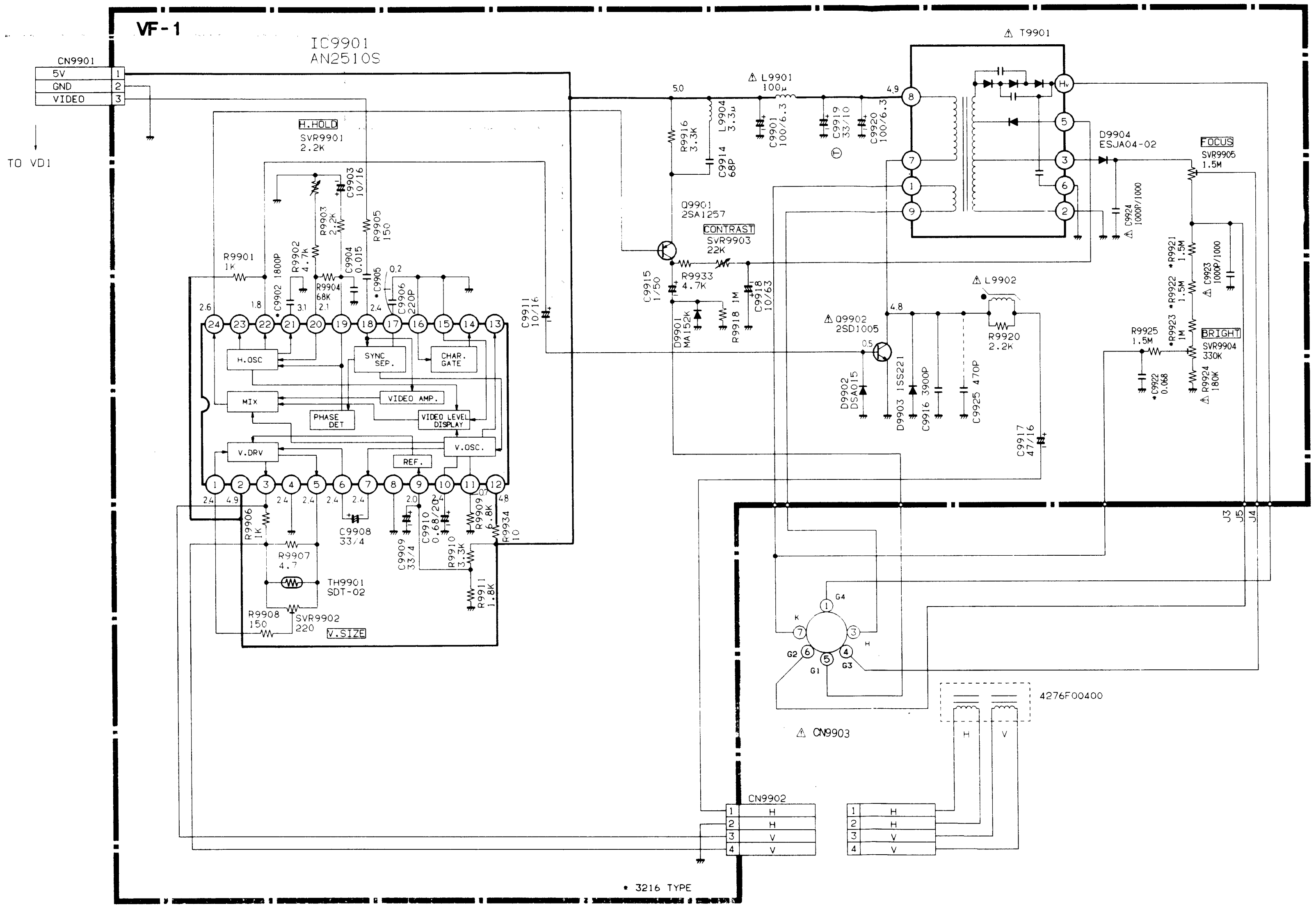
VF-1 BOARD SIDE A (FOR FVC-P901 ONLY)


TH9901
SVR9902
V.SIZE
H.HOLD
SVR9901
C9909
C9901
C9908
C9920
C9905
R9905
L9904
C9919
C9918
C9903
R9915
C9914
R9916
SVR9903
R9933
CONTRAST
G1
C9911
C9917
C9916
L02
D9904
C9924
C9922
G2
G3
K
H
C9923
BRIGHT
FOCUS

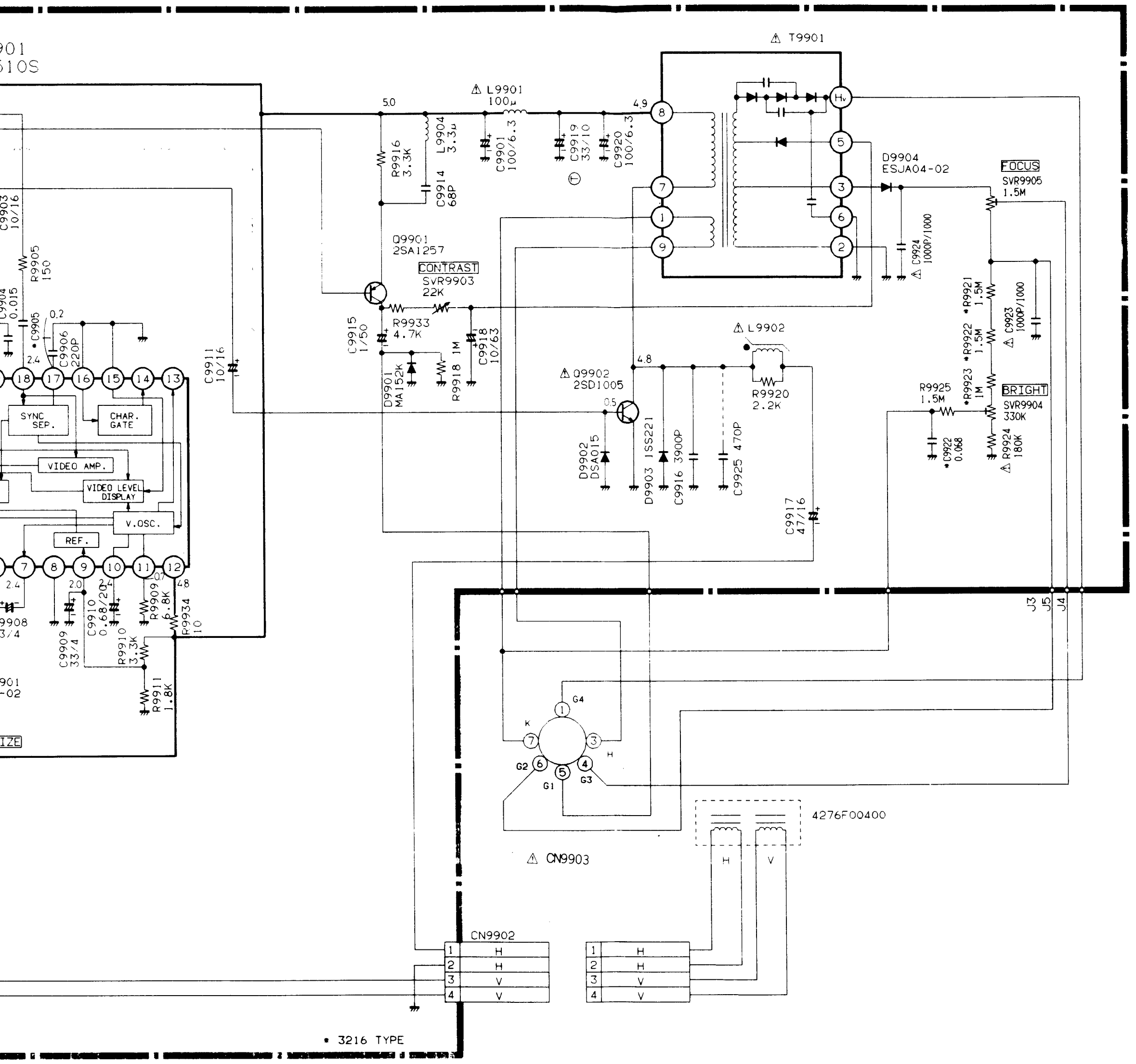
VF-1 BOARD SIDE B (FOR FVC-P901 ONLY)


R9908
R9334
R9907
R9910
R9911
R9906
IC9901
R9909
C9910
R9931
R9902
R9904
R9903
C9904
C9906
C9902
1066D
C9915
R9918
R9901
D9901
2066D
D9902
D9903
CAN
C9926
C9925
R9925
R9924
R9923
R9922
R9921
R9920

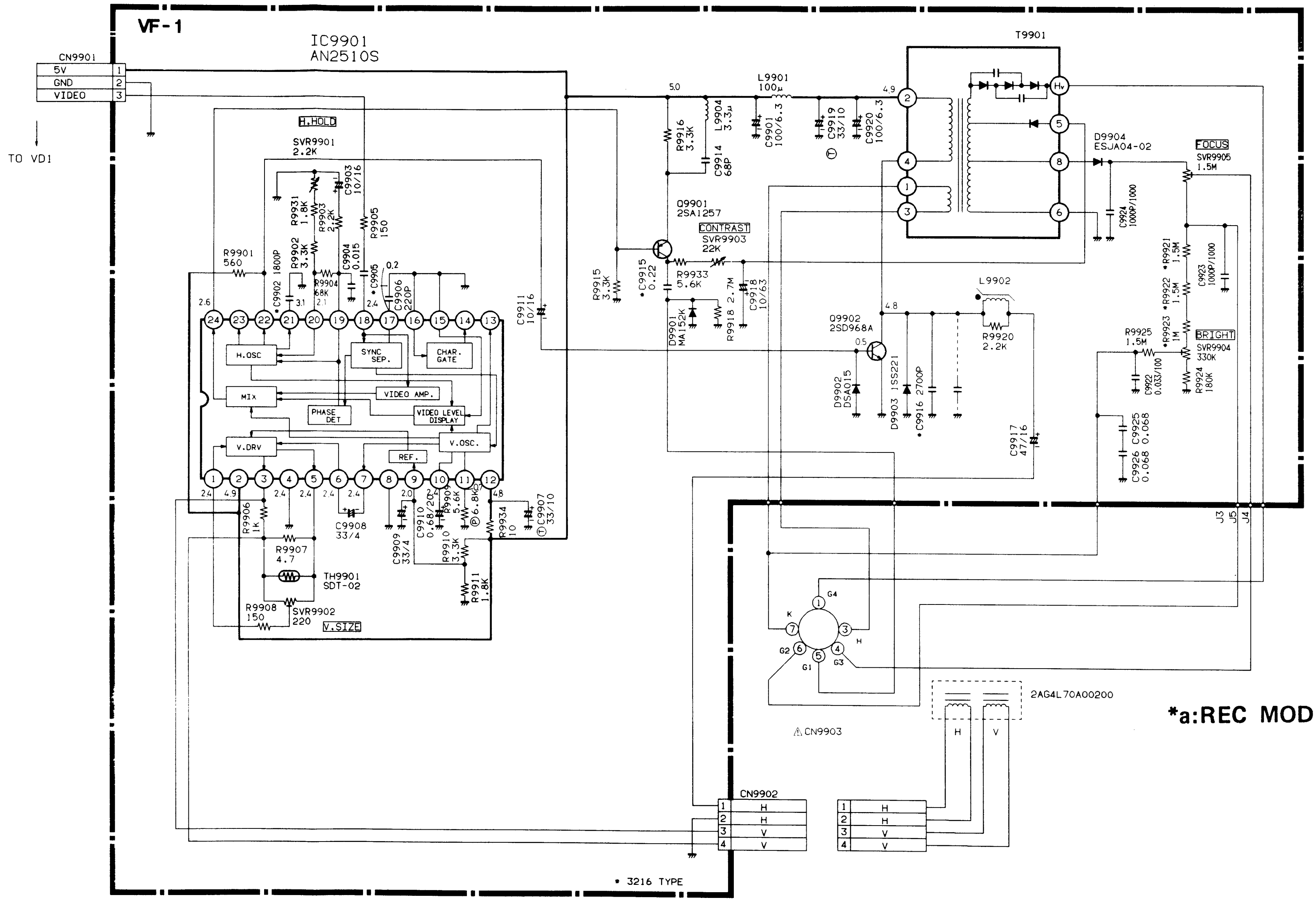
VF-1 CIRCUIT


VF-1
IC9901
AN2510S
CN9901
5V
GND
VIDEO
TO VD1
H.HOLD
SVR9901 2.2K
R9901 1K
C9902 1800P
R9902 4.7K
R9904 68K
C9903 10/16
R9903 2K
R9905 150
C9904 0.015
C9905
C9906 220P
C9911 10/16
H.OSC
SYNC SEP.
CHAR. GATE
MIX
VIDEO AMP.
PHASE DET
VIDEO LEVEL DISPLAY
V.DRV
REF.
V.OSC.
R9906 1K
R9907 4.7
C9908 33/4
C9909 33/4
C9910 0.68/20
R9910 3.3K
R9909 6.8K
R9934 10
R9911 1.8K
TH9901 SDT-02
R9908 150
SVR9902 220
V.SIZE
L9901 100u
R9916 3.3K
L9904 3.3u
C9914 68P
C9901 100/6.3
C9919 33/10
C9920 100/6.3
Q9901 2SA1257
CONTRAST
SVR9903 22K
C9915 1/50
R9933 4.7K
D9901 MA152K
R9918 1M
C9918 10/63
Q9902 2SD1005
D9902 DS4015
D9903 1SS221
C9916 3900P
C9925 470P
C9917 47/16
L9902
R9920 2.2K
T9901
D9904 ESJA04-02
FOCUS
SVR9905 1.5M
C9924 1000P/1000
R9921 1.5M
R9922 1.5M
R9923 1M
C9923 1000P/1000
BRIGHT
SVR9904 330K
R9924 180K
R9925 1.5M
C9922 0.068
J3
J5
J4
G1
G2
G3
G4
K
H
CN9903
4276F00400
CN9902
H
V
• 3216 TYPE

VF-1 CIRCUIT


T9901
L9901 100μ
L9904 3.3μ
R9916 3.3K
C9914 68P
C9901 100/6.3
C9919 33/10
C9920 100/6.3
D9904 ESJA04-02
FOCUS
SVR9905 1.5M
Q9901 2SA1257
CONTRAST
SVR9903 22K
R9933 4.7K
C9915 1/50
D9901 MA152K
R9918 1M
C9918 10/63
Q9902 2SD1005
L9902
R9920 2.2K
D9902 DSA015
D9903 1SS221
C9916 3900P
C9925 470P
C9917 47/16
R9921 1.5M
R9922 1.5M
C9923 1000P/1000
C9924 1000P/1000
R9925 1.5M
R9923 1M
C9922 0.068
BRIGHT
SVR9904 330K
R9924 180K
SYNC SEP.
CHAR. GATE
VIDEO AMP.
VIDEO LEVEL DISPLAY
V.OSC.
REF.
C9911 10/16
C9909 33/4
C9910 0.68/20
R9910 3.3K
R9909 6.8K
R9934 10
R9911 1.8K
G4
K
G2
G1
G3
H
CN9903
4276F00400
CN9902
H
H
V
V
3216 TYPE
J3
J5
J4

VF-1 CIRCUIT (FOR FVC-P901 ONLY)

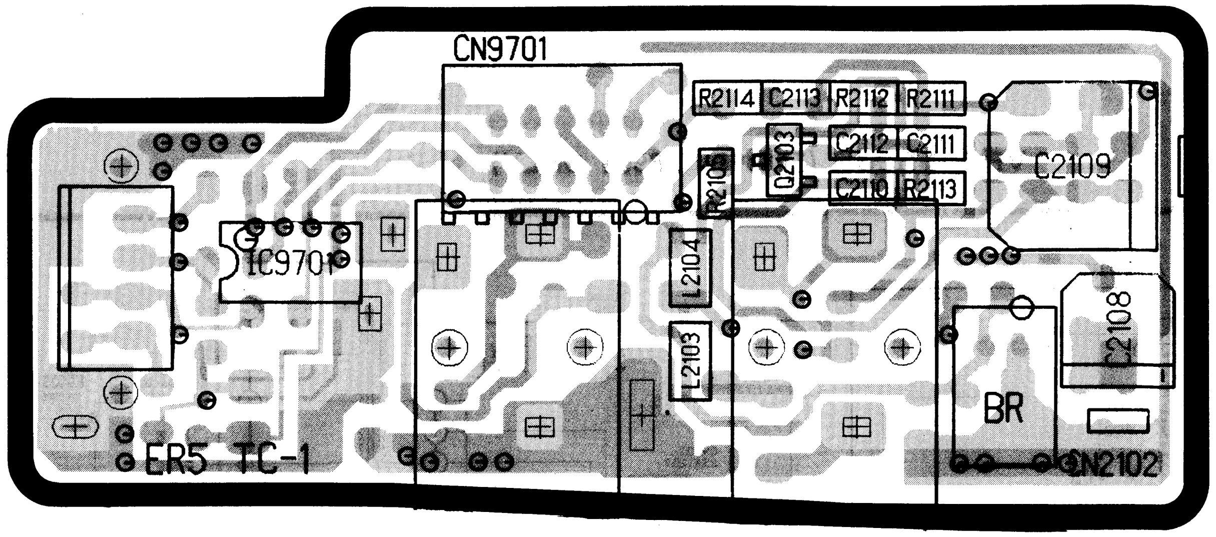

VF-1
CN9901
5V
GND
VIDEO
TO VD1
IC9901
AN2510S
H.HOLD
SVR9901 2.2K
R9931 1.8K
R9903 2.2K
C9903 10/16
R9905 150
R9901 560
R9902 3.3K
C9902 1800P
R9904 68K
C9904 0.015
C9905
C9906 220P
H.OSC
SYNC SEP.
CHAR. GATE
MIX
PHASE DET
VIDEO AMP.
VIDEO LEVEL DISPLAY
V.DRV
REF.
V.OSC.
R9906 1K
R9907 4.7
TH9901 SDT-02
R9908 150
SVR9902 220
V.SIZE
C9908 33/4
C9909 33/4
C9910 0.68/20
R9910 3.3K
R9909 5.6K
R9934 10
C9907 33/10
R9911 1.8K
C9911 10/16
T9901
L9901 100μ
L9904 3.3μ
R9916 3.3K
C9914 68P
C9901 100/6.3
C9919 33/10
C9920 100/6.3
D9904 ESJA04-02
FOCUS
SVR9905 1.5M
C9924 1000P/1000
Q9901 2SA1257
CONTRAST
SVR9903 22K
R9915 3.3K
C9915 0.22
R9933 5.6K
D9901 MA152K
R9918 2.7M
C9918 10/63
Q9902 2SD968A
L9902
R9920 2.2K
D9902 DSA015
D9903 1SS221
C9916 2700P
C9917 47/16
R9921 1.5M
R9922 1.5M
C9923 1000P/1000
R9925 1.5M
R9923 1M
C9922 0.033/100
BRIGHT
SVR9904 330K
R9924 180K
C9926 0.068
C9925 0.068
G4
K
G2
G1
G3
H
CN9903
2AG4L70A00200
CN9902
H
H
V
V
3216 TYPE
J3
J5
J4

G

*a:REC MODE

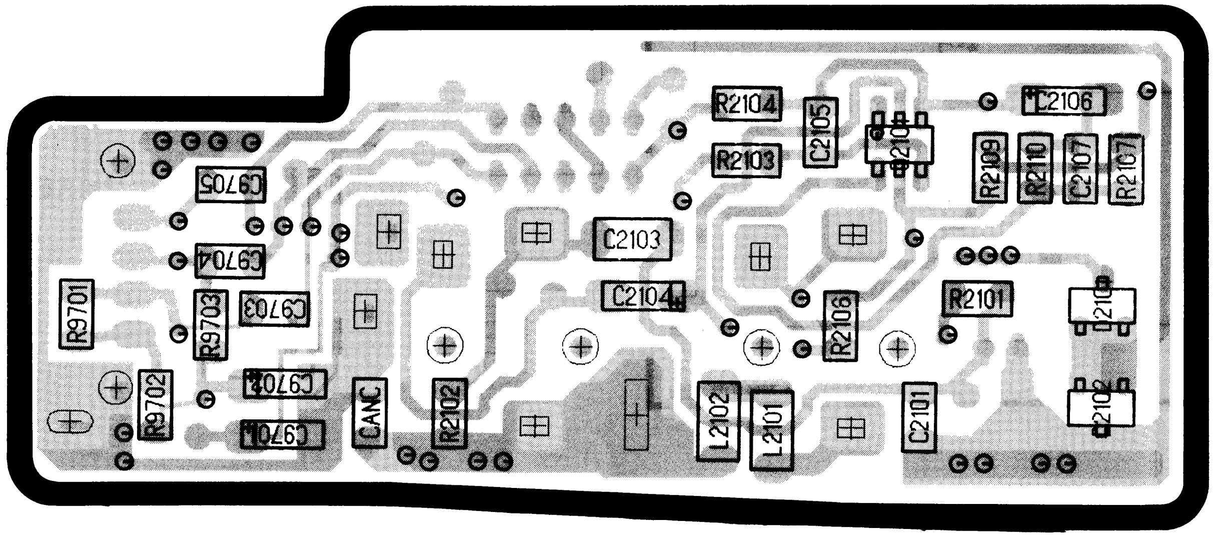
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

TC-1 BOARD SIDE A

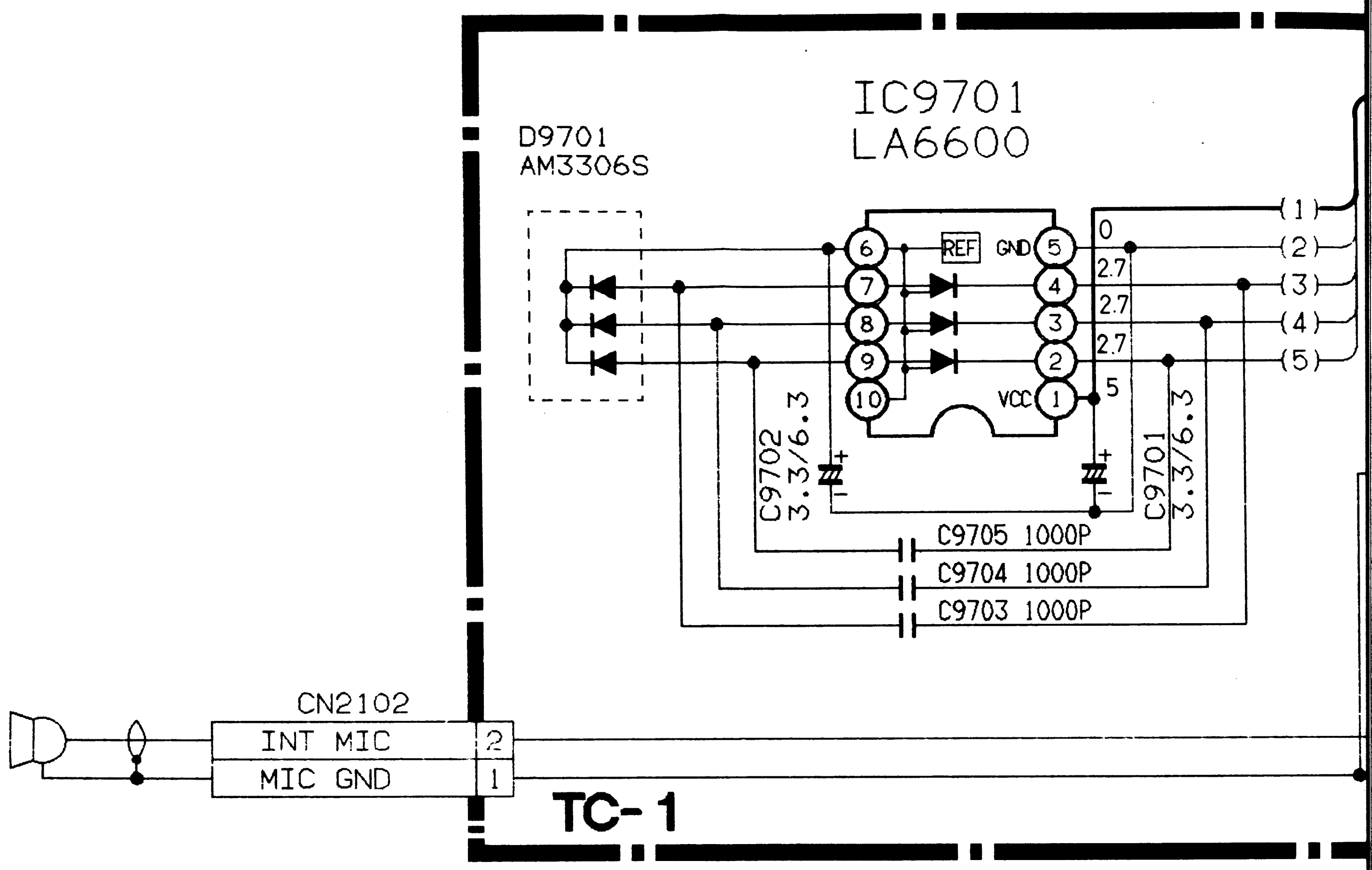


CN9701
R2114
C2113
R2112
R2111
C2112
C2111
C2110
R2113
Q2103
R2108
C2109
IC9701
L2104
L2103
C2108
BR
ER5 TC-1
CN2102

TC-1 BOARD SIDE B



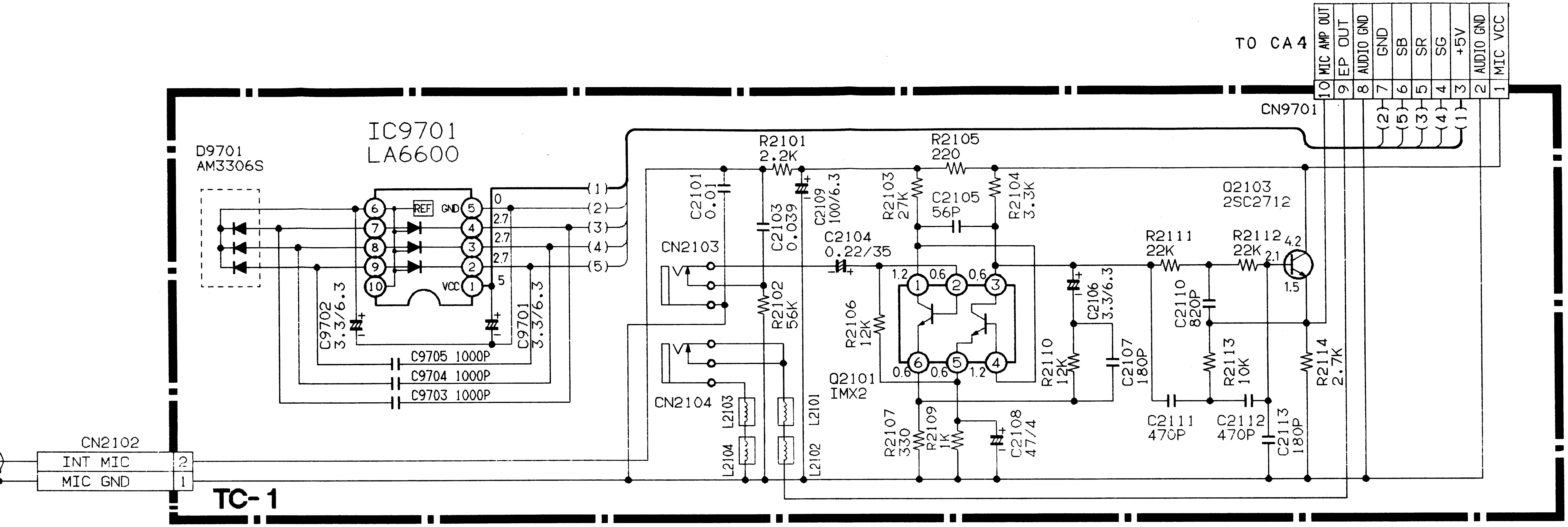
R2104
C2105
C2106
R2103
R2109
R2110
C2107
R2107
C9705
C2103
C9704
C2104
R2101
R9701
R9703
C9703
R2106
C9702
CANC
R2102
L2102
L2101
C2101
R9702
C9701



IC9701
LA6600
D9701
AM3306S
REF
GND
VCC
0
2.7
2.7
2.7
5
(1)
(2)
(3)
(4)
(5)
C9702
3.3/6.3
C9701
3.3/6.3
C9705 1000P
C9704 1000P
C9703 1000P
CN2102
INT MIC
MIC GND
2
1
TC-1

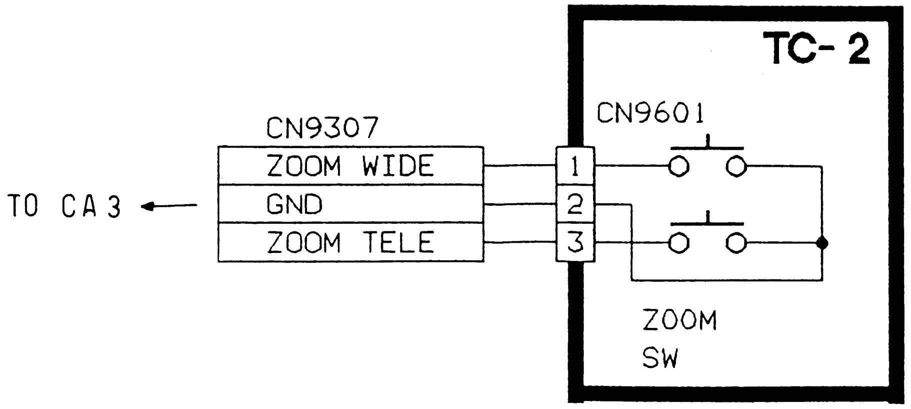
TO

TC-1 CIRCUIT

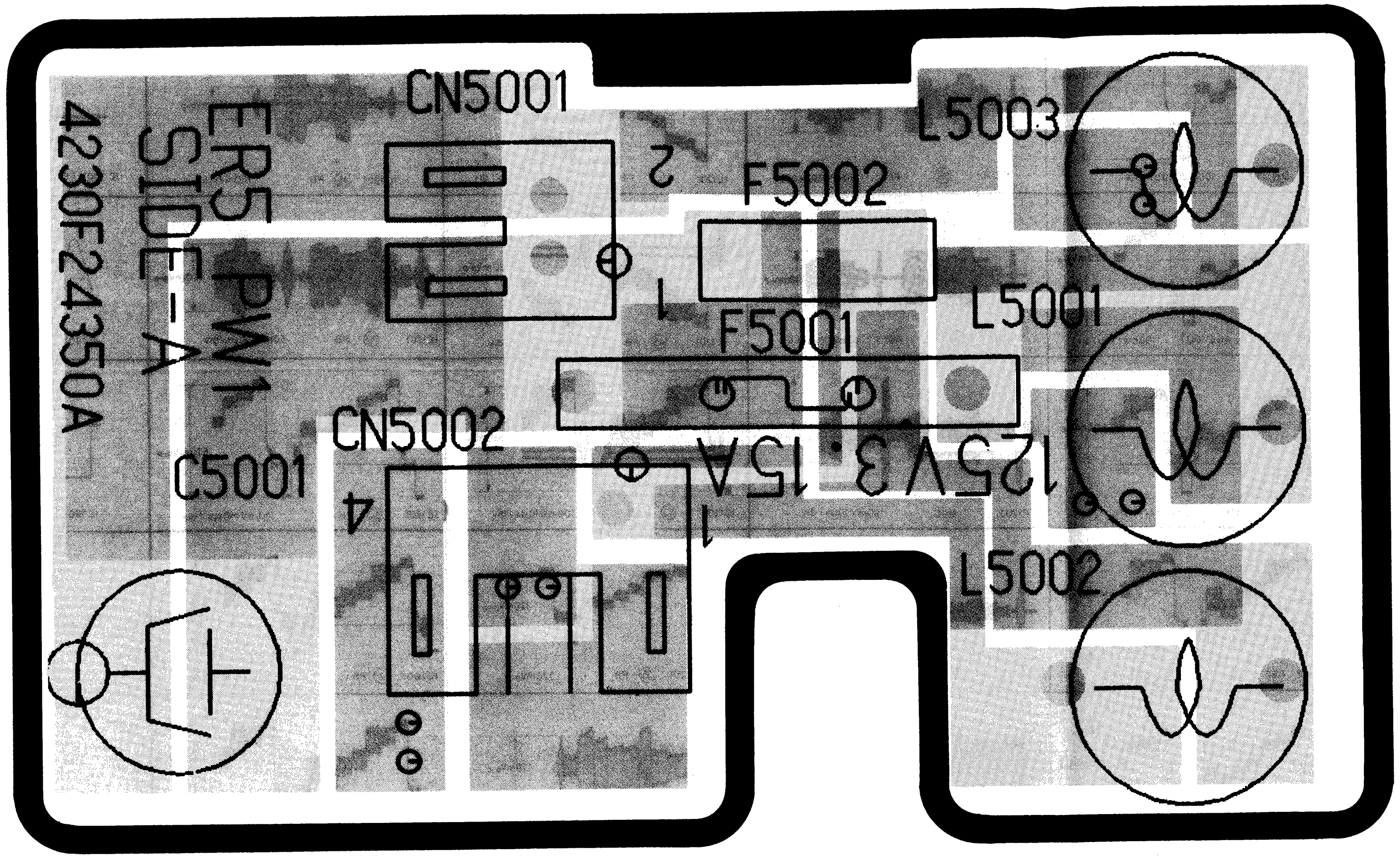

TO CA4
MIC AMP OUT
EP OUT
AUDIO GND
GND
SB
SR
SG
+5V
AUDIO GND
MIC VCC
10
9
8
7
6
5
4
3
2
1
CN9701
D9701
AM3306S
IC9701
LA6600
REF
GND
VCC
0
2.7
2.7
2.7
5
C9702
3.3/6.3
C9701
3.3/6.3
C9705 1000P
C9704 1000P
C9703 1000P
R2101
2.2K
C2101
0.01
C2103
0.039
C2109
100/6.3
C2104
0.22/35
CN2103
R2102
56K
CN2104
L2103
L2104
L2101
L2102
R2105
220
R2103
27K
C2105
56P
R2104
3.3K
R2106
12K
Q2101
IMX2
1.2
0.6
0.6
0.6
0.6
1.2
R2107
330
R2109
1K
C2108
47/4
C2106
3.3/6.3
R2110
12K
C2107
180P
Q2103
2SC2712
R2111
22K
R2112
22K
4.2
2.1
1.5
C2110
820P
R2113
10K
R2114
2.7K
C2111
470P
C2112
470P
C2113
180P
CN2102
INT MIC
MIC GND
2
1
TC-1

*a:REC MODE

TC-2 CIRCUIT


TC-2
CN9307
ZOOM WIDE
GND
ZOOM TELE
TO CA3
CN9601
1
2
3
ZOOM
SW

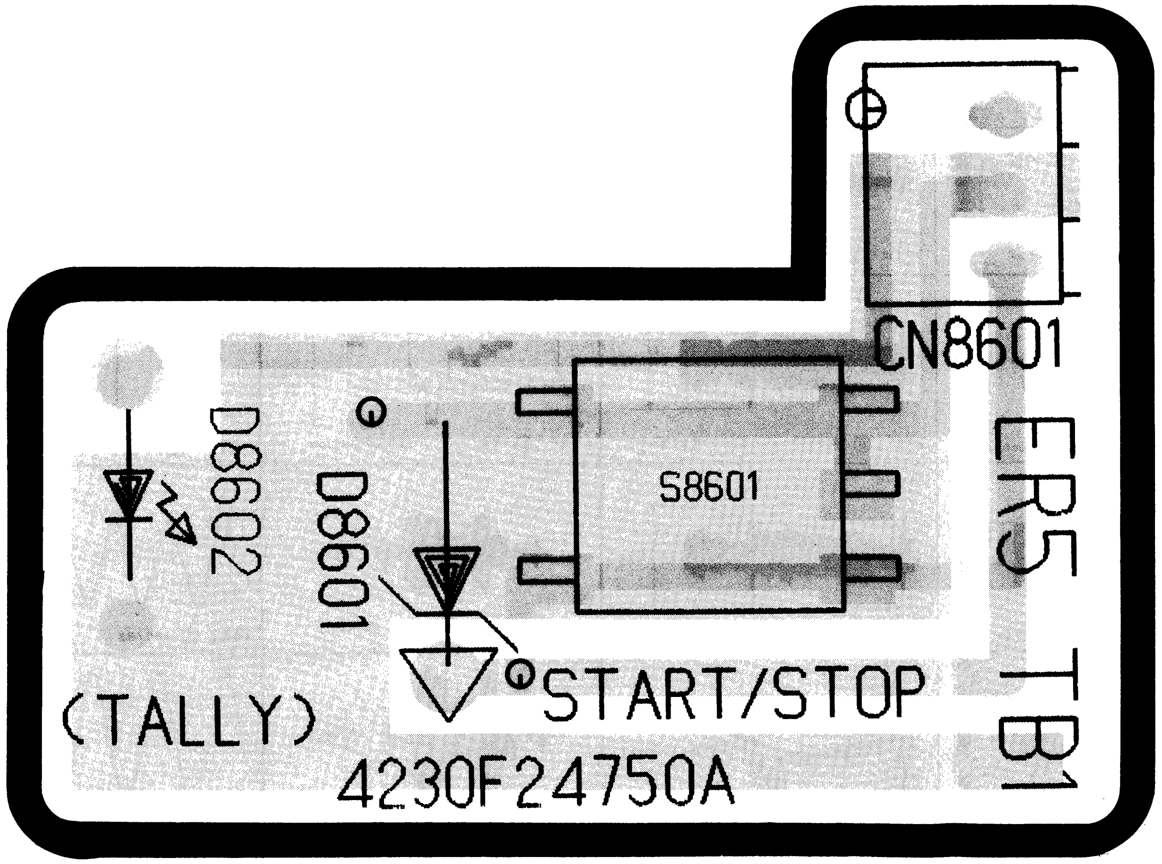
PW-1 BOARD


CN5001
ER5 PW1
SIDE-A
4230F24350A
2
1
F5002
L5003
L5001
F5001
125V3.15A
CN5002
C5001
4
1
L5002

Battery
or
AC adaptor

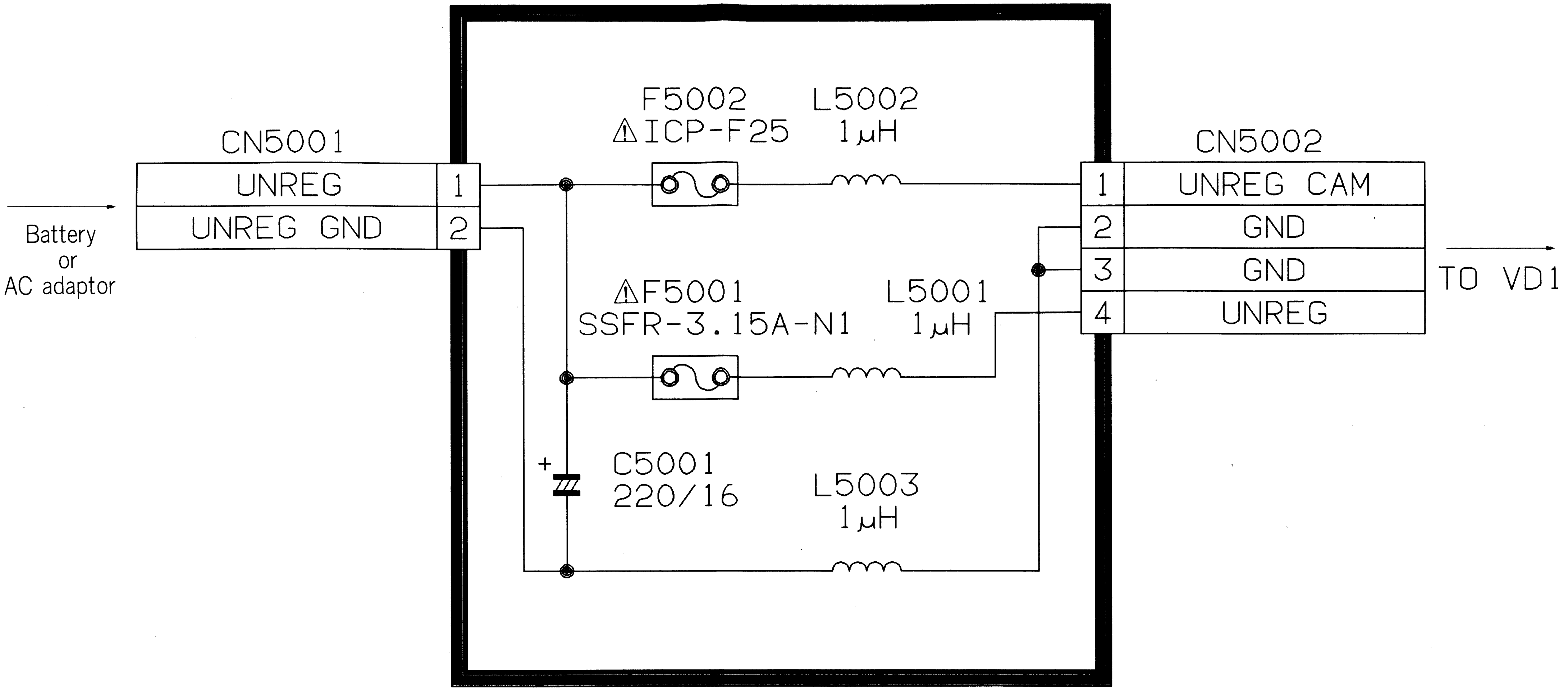
CN5001
UNREG
UNREG GND

TB-1 BOARD

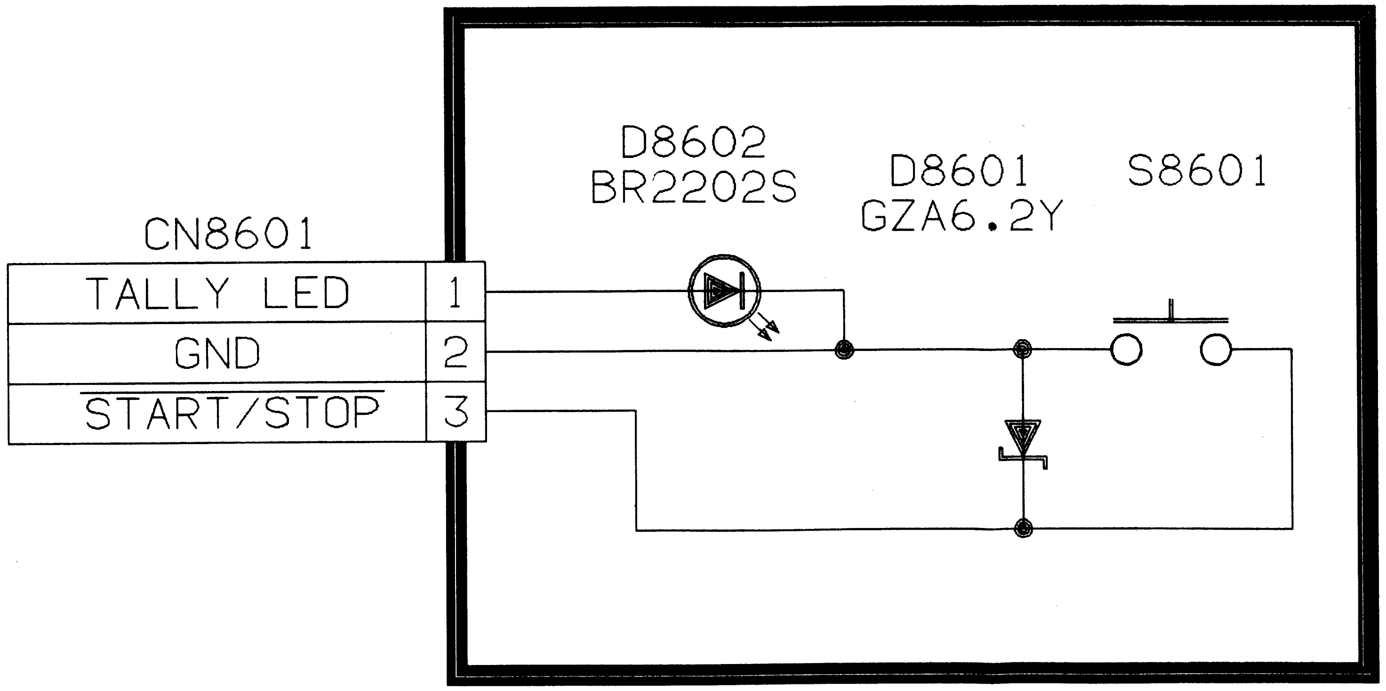

CN8601
ER5 TB1
S8601
D8602
D8601
START/STOP
(TALLY)
4230F24750A

CN8601	
TALLY LED	1
GND	2
$\overline{\text{START/STOP}}$	3

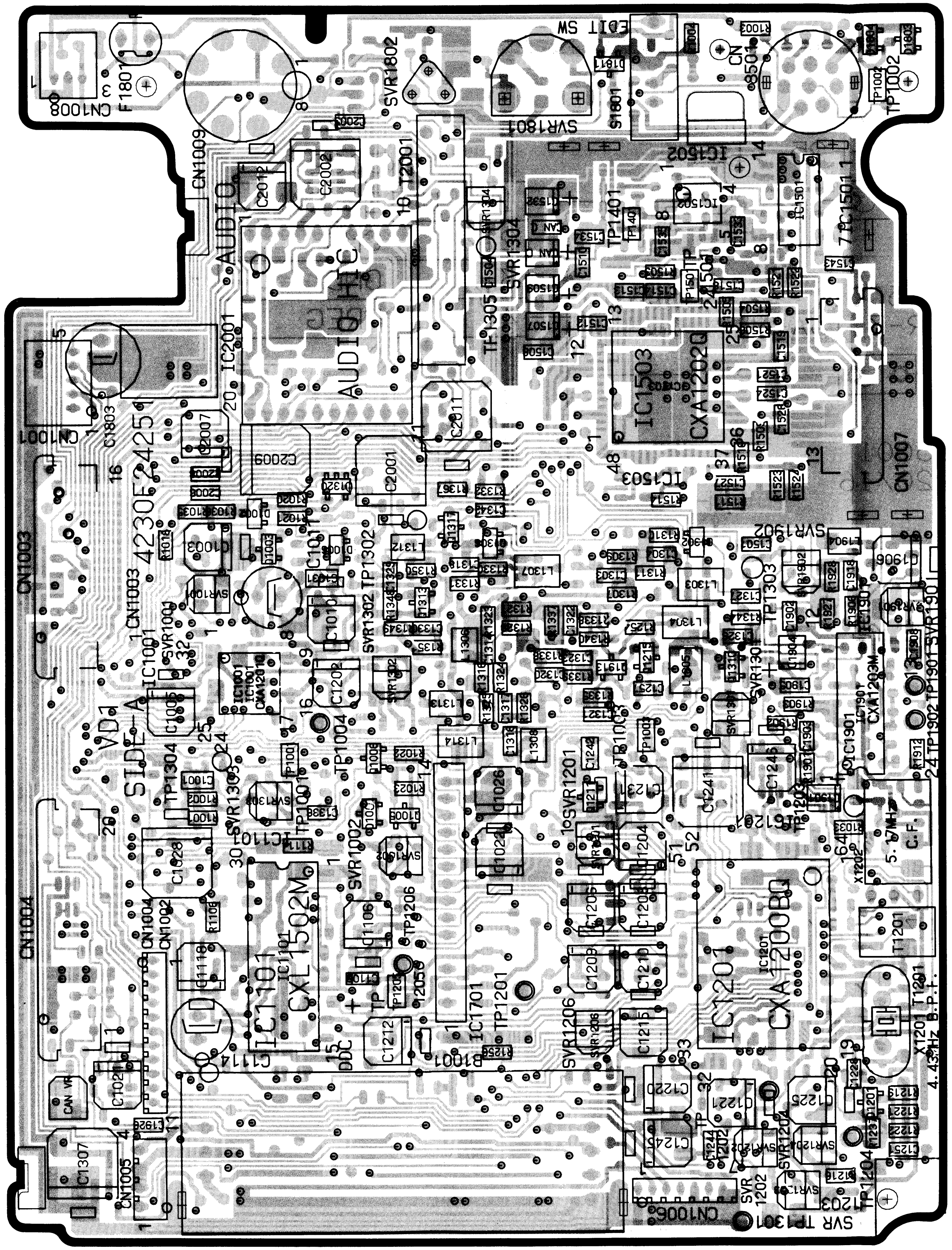
PW-1 CIRCUIT


CN5001
UNREG
UNREG GND
1
2
Battery
or
AC adaptor
F5002
⚠ICP-F25
L5002
1 μH
⚠F5001
SSFR-3.15A-N1
L5001
1 μH
C5001
220/16
L5003
1 μH
CN5002
UNREG CAM
GND
GND
UNREG
1
2
3
4
TO VD1

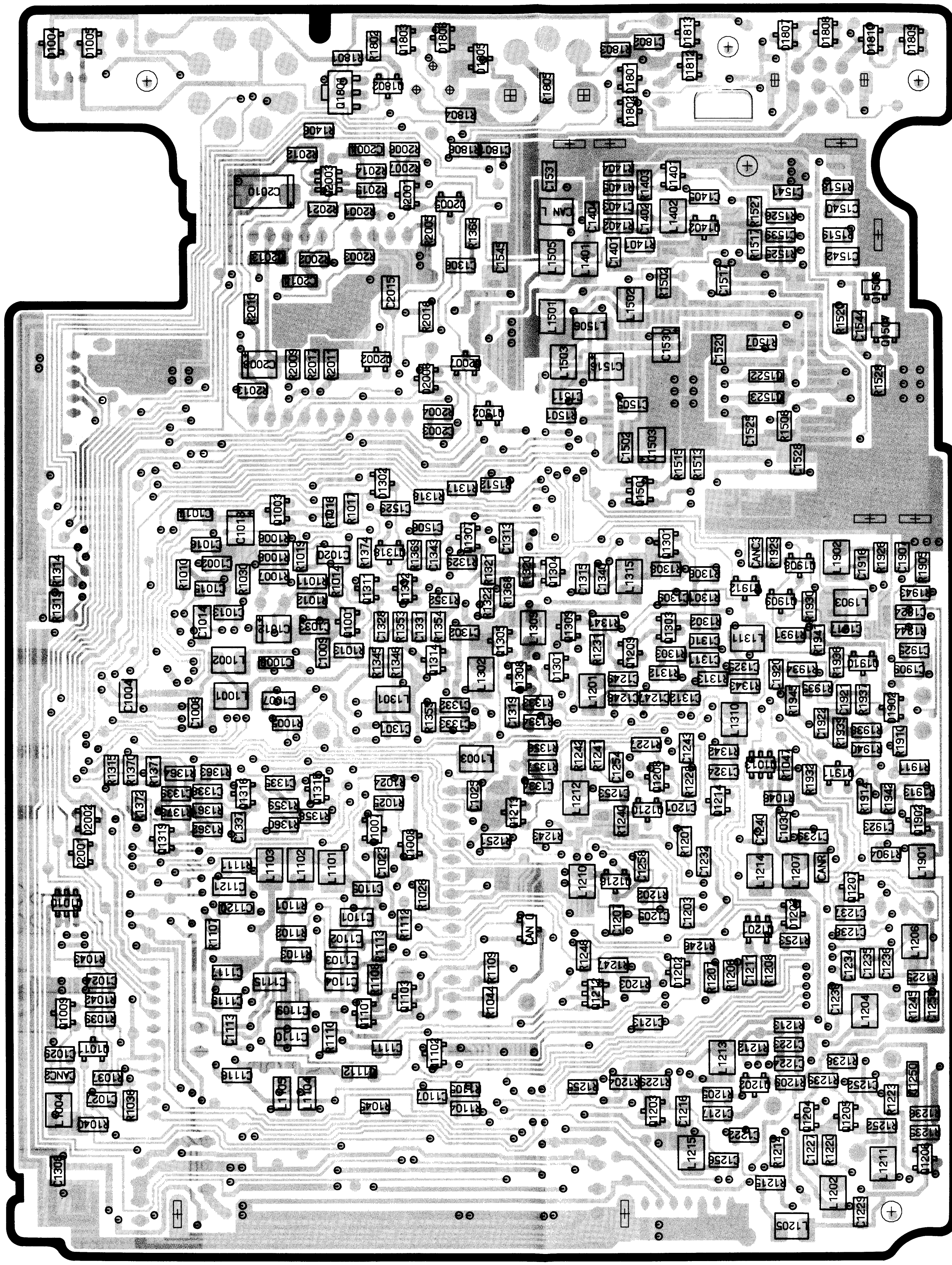
TB-1 CIRCUIT


D8602
BR2202S
D8601
GZA6.2Y
S8601
CN8601
TALLY LED
GND
START/STOP
1
2
3

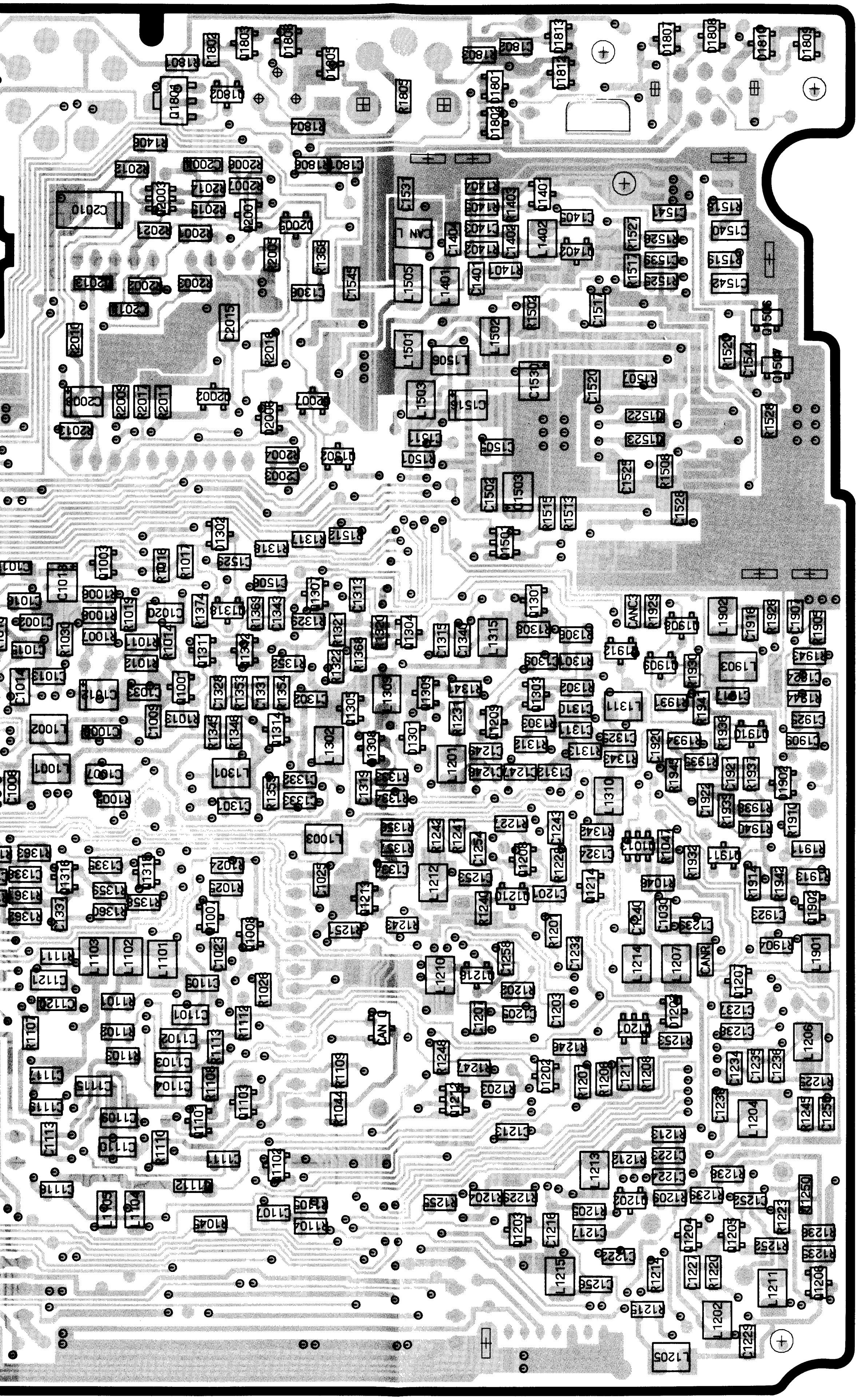
VD-1 BOARD SIDE A


IC1503 CXA1202Q
IC1201 CXA1200BQ
IC1101 CXL1502M
IC2001 AUDIO HIC
IC1001 CXA1201Q
IC1901 CXA1203M
IC1502
T2001
SVR1801
SVR1802
EDIT SW
CN1001
CN1003
CN1004
CN1005
CN1006
CN1007
CN1008
CN1009
CN8501
F1801
TP1001
TP1002
TP1302
TP1303
TP1304
TP1201
TP1401
TP1301
X1201 5.17MHz
C.F.
T1201 4.43MHz B.P.F.
VD-1 SIDE A
4230F2425
DOC
B1001

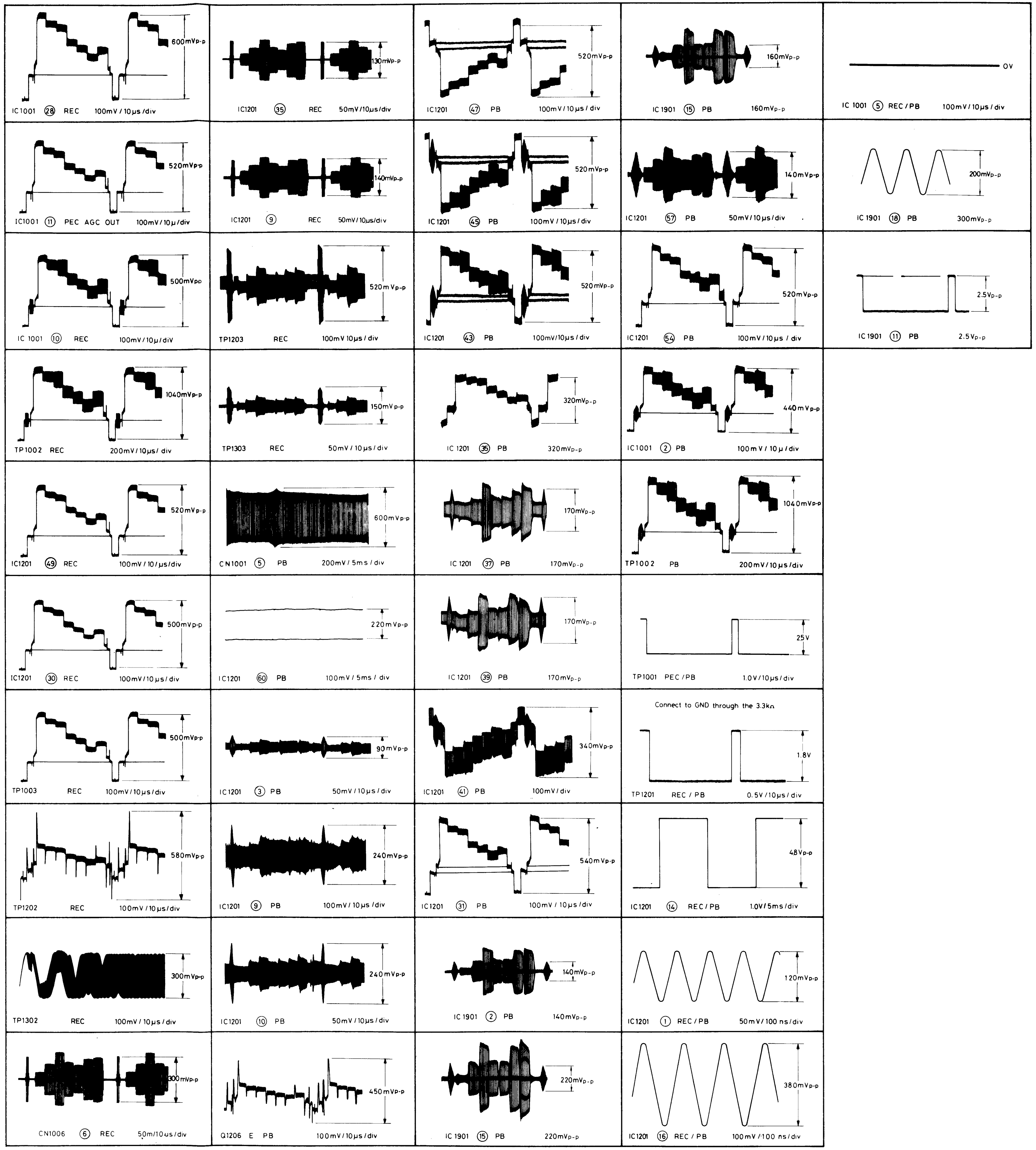
VD-1 BOARD SIDE B


K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

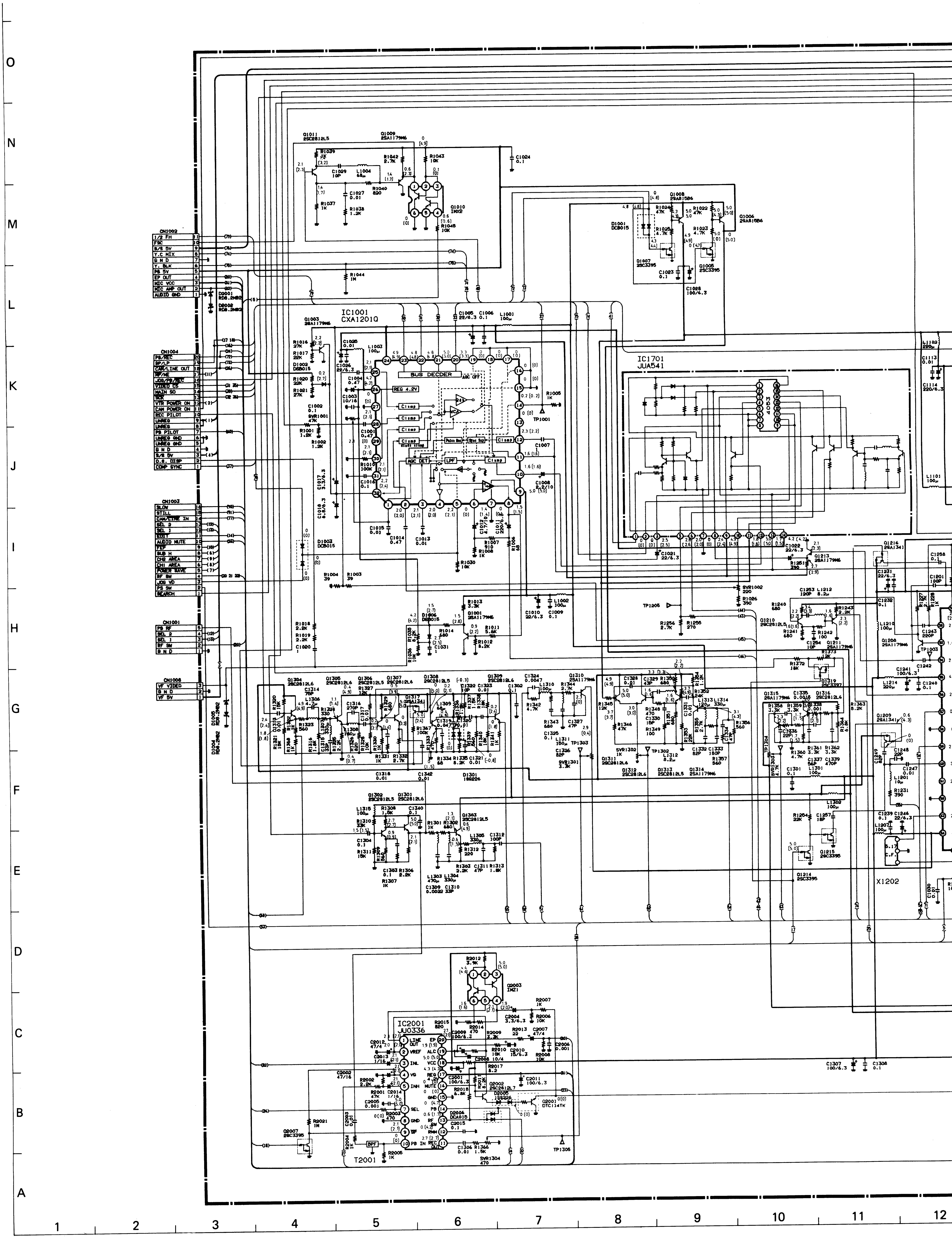
VD-1 BOARD SIDE B



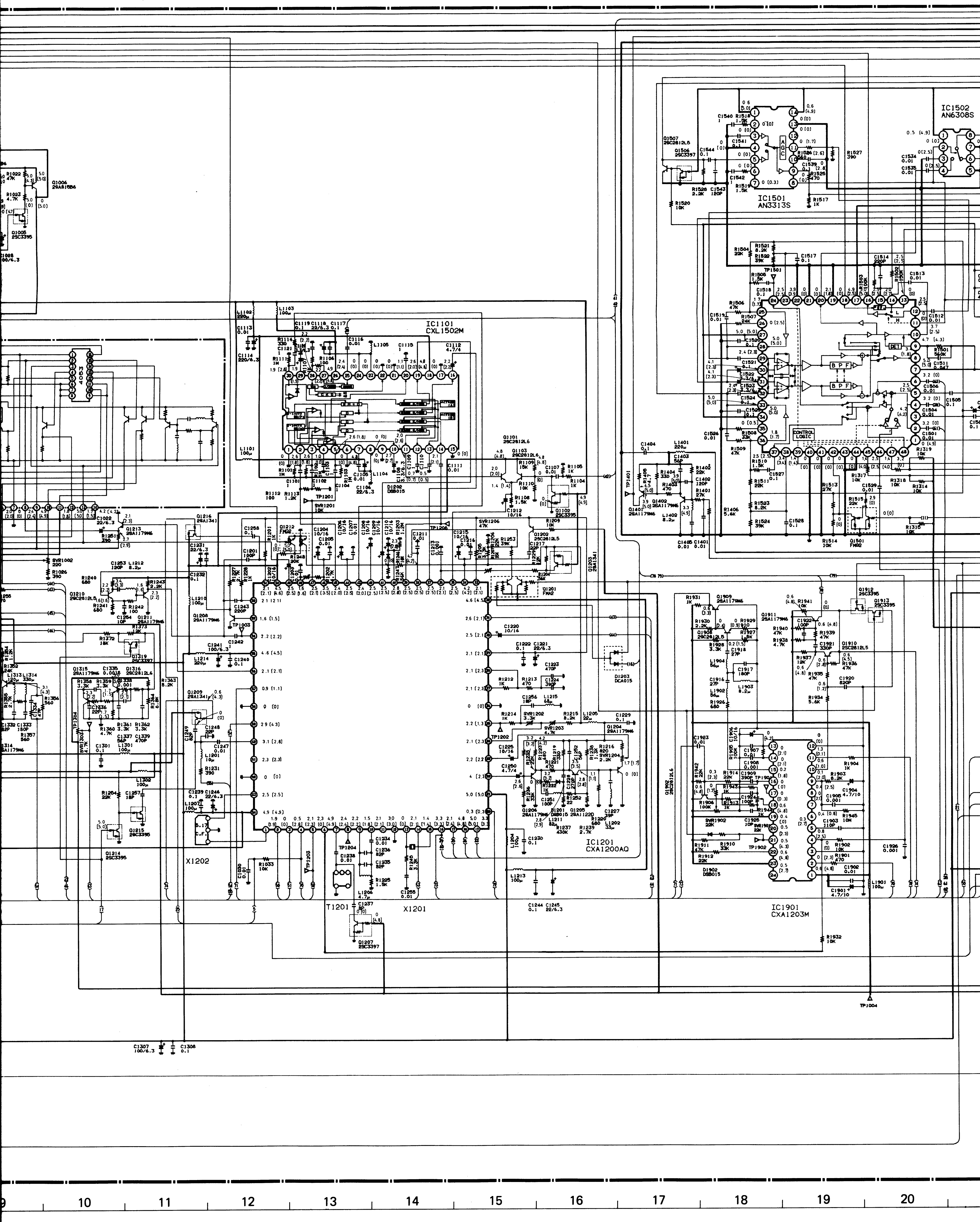
VD-1 BOARD (VIDEO/AUDIO)



11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27


O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
CN1002
1/2 FH 11
FSC 10
S/S 5V 9
Y.C MIX 8
G N D 7
Y. BLK 6
PB 5V 5
EP OUT 4
MIC VCC 3
MIC AMP OUT 2
AUDIO GND 1
CN1004
PB/REC 20
SP/LP 19
CAM/LINE OUT 18
FF/MF 17
JOG/PB/REC 16
VIDEO CS 15
MAIN SO 14
SCK 13
VTR POWER ON 12
CAM POWER ON 11
REC PILOT 10
UNREG 9
UNREG 8
PB PILOT 7
UNREG GND 6
UNREG GND 5
G N D 4
S/S 5V 3
O.S. DISP 2
COMP SYNC 1
CN1003
SLOW 16
STILL 15
CAM/LINE IN 14
SEL 2 13
SEL 1 12
EDIT 11
AUDIO MUTE 10
FEP 9
SUB H 8
CH2 AREA 7
CH1 AREA 6
POWER SAVE 5
RF SW 4
JOG VD 3
PS SW 2
SEARCH 1
CN1001
PB RF 5
SEL 2 4
SEL 1 3
RF SW 2
G N D 1
CN1008
VF VIDEO 3
G N D 2
VF 5V 1
D2001 RD8.2MB2
D2002 RD8.2MB2
D1005 RD8.2MB2
D1004 RD8.2MB2
Q1011 2SC2812L5
Q1009 2SA1179M6
Q1010 IMX2
Q1008 2SA81586
Q1006 2SA81586
Q1007 2SC3395
Q1005 2SC3395
D1001 DCB015
IC1001
CXA1201Q
BUS DECDER
REG 4.2V
AGC OFF
Clamp
VCA
AGC DET
LPF
Pulse Gen
Sync Sep
Q1003 2SA1179M6
D1002 DSB015
D1003 DCB015
D1006 DSB015
Q1001 2SA1179M6
SVR1001 47K
TP1001
IC1701
JUA541
4053
SVR1002 220
TP1205
Q1216 2SA1341
Q1213 2SA1179M6
Q1210 2SC2812L5
Q1211 2SA1179M6
Q1208 2SA1179M6
TP1003
Q1209 2SA1341
Q1215 2SC3395
Q1214 2SC3395
X1202
Q1304 2SC2812L6
Q1305 2SC2812L6
Q1306 2SC2812L6
Q1307 2SC2812L6
Q1308 2SC2812L5
Q1317 2SA1341
Q1309 2SC2812L6
Q1310 2SA1179M6
Q1311 2SC2812L6
Q1312 2SC2812L6
Q1313 2SC2812L5
Q1314 2SA1179M6
Q1315 2SA1179M6
Q1316 2SC2812L6
Q1319 2SC3397
SVR1301 3.3K
SVR1302 1K
SVR1303 47K
TP1302
TP1303
TP1304
D1301 1SS226
Q1302 2SC2812L5
Q1301 2SC2812L6
Q1303 2SC2812L5
Q2003 IMZ1
IC2001
JU0336
LINE OUT
VREF
INL
VG
INH
SEL
GND
SW
PB
RF SW
REC OUT
IN
BPF
EP
ALC
VCC
REG
MUTE
T2001
Q2002 2SC2812L7
D2005 1SS226
Q2001 DTC114TK
D2006 DCA010
Q2007 2SC3395
SVR1304 470
TP1305

VD-1 CIRCUIT


IC1101
CXL1502M
IC1201
CXA1200AQ
IC1501
AN3313S
IC1502
AN6308S
IC1901
CXA1203M
4053
X1201
X1202
T1201
TP1004
AGC
BPF
DET
CONTROL LOGIC
Q1006
2SA1686
Q1005
2SC3395
Q1101
2SC2812L6
Q1102
2SC3395
Q1103
2SC2812L6
Q1201
FMA2
Q1202
2SC2812L5
Q1204
2SA1179M6
Q1205
2SA1122D
Q1207
2SC3397
Q1208
2SA1179M6
Q1209
2SA1341
Q1210
2SC2812L5
Q1211
2SA1179M6
Q1212
FMG2
Q1213
2SA1179M6
Q1214
2SC3395
Q1215
2SC3395
Q1216
2SA1341
Q1315
2SA1179M6
Q1316
2SC2812L6
Q1319
2SC3397
Q1401
2SA1179M6
Q1402
2SA1179M6
Q1501
FMG2
Q1506
2SC3397
Q1507
2SC2812L6
Q1908
2SC2812L5
Q1909
2SA1179M6
Q1910
2SC2812L5
Q1911
2SA1179M6
Q1912
2SC3395
Q1913
2SC3395
D1202
DSB015
D1203
DCA015
D1902
DSB015
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11
12
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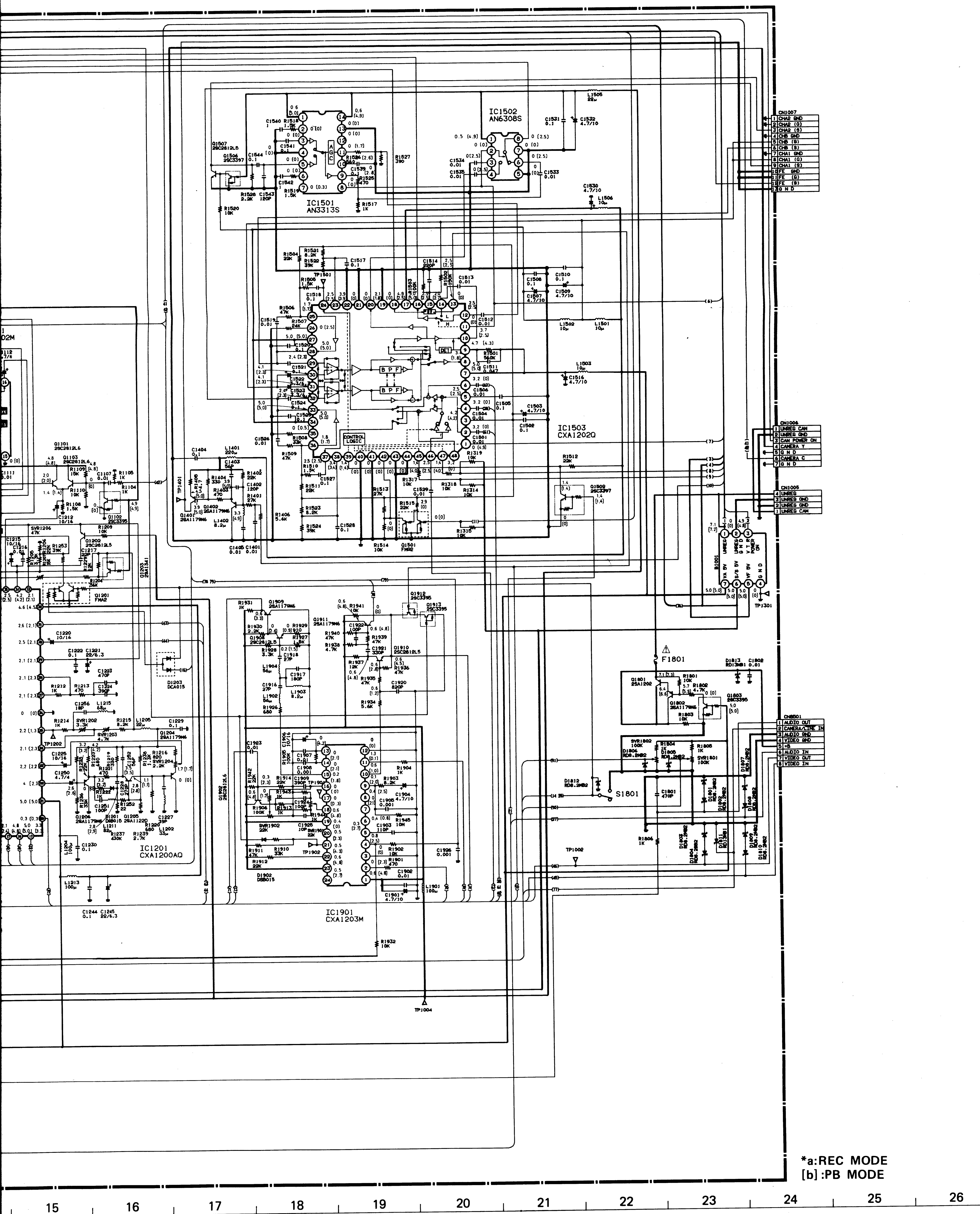
14
15
16
17
18
19
20


IC1501
AN3313S
IC1502
AN6308S
IC1503
CXA1202Q
IC1201
CXA1200AQ
IC1901
CXA1203M
CONTROL LOGIC
B P F
B P F
DET
A G C
CN1007
1 CHA2 GND
2 CHA2 (G)
3 CHA2 (S)
4 CHB GND
5 CHB (G)
6 CHB (S)
7 CHA1 GND
8 CHA1 (G)
9 CHA1 (S)
10 FE GND
11 FE (G)
12 FE (S)
13 G N D
CN1006
1 UNREG CAM
2 UNREG GND
3 CAM POWER ON
4 CAMERA Y
5 G N D
6 CAMERA C
7 G N D
CN1005
4 UNREG
3 UNREG GND
2 UNREG GND
1 UNREG CAM
CN8001
1 AUDIO OUT
2 CAMERA/LINE IN
3 AUDIO GND
4 VIDEO GND
5 +B
6 AUDIO IN
7 VIDEO OUT
8 VIDEO IN
B1001
UNREG
UNREG GND
VTR POWER ON
VA 5V
S/S 5V
VF 5V
G N D
F1801
S1801
TP1301
TP1401
TP1501
TP1901
TP1902
TP1202
TP1002
TP1004
15
16
17
18
19
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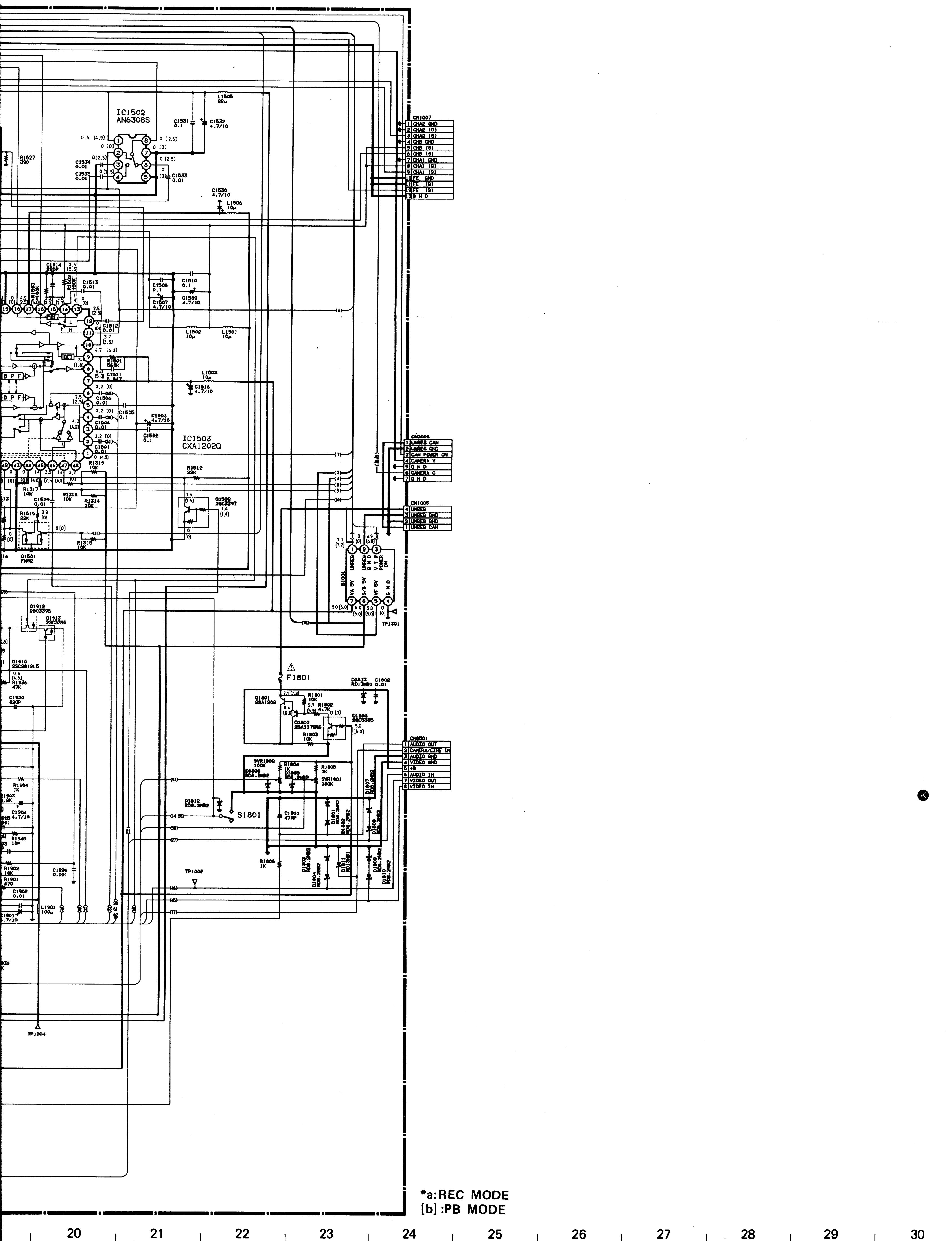
21
22
23
24
25
26

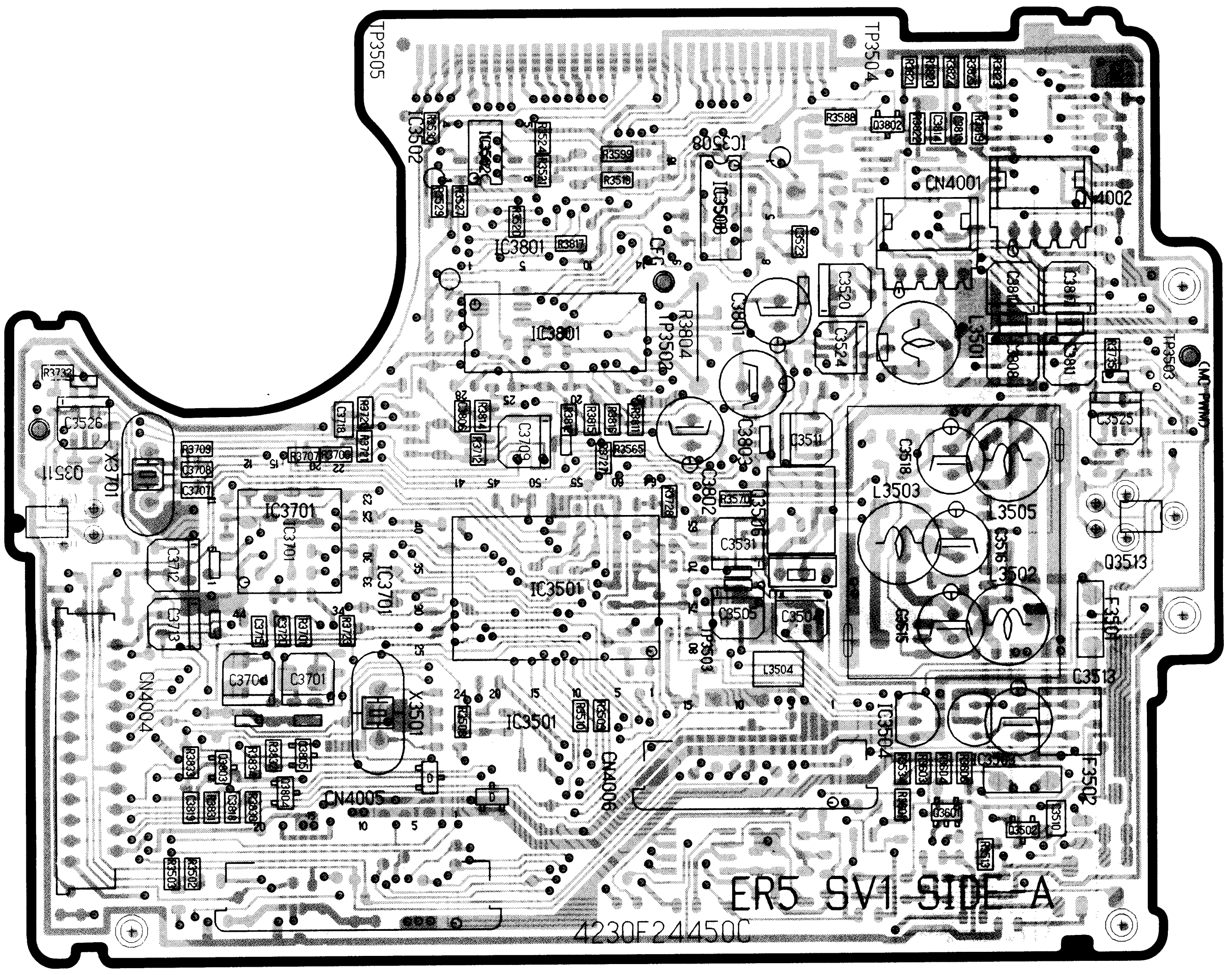
*a:REC MODE
[b]:PB MODE



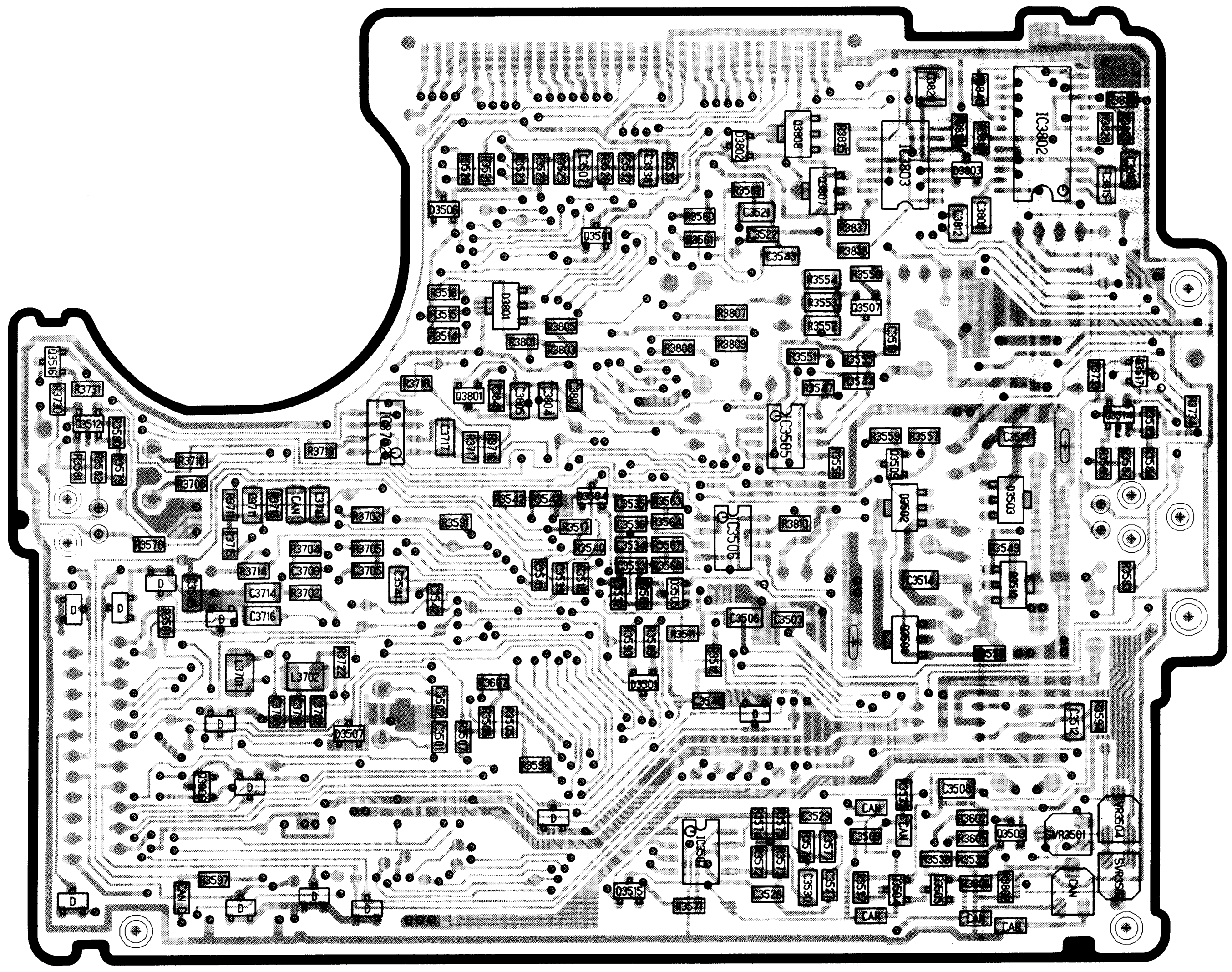
IC1502
AN6308S
IC1503
CXA1202Q
CN1007
1 CHA2 GND
2 CHA2 (G)
3 CHA2 (S)
4 CHB GND
5 CHB (S)
6 CHB (S)
7 CHA1 GND
8 CHA1 (G)
9 CHA1 (S)
10 FE GND
11 FE (G)
12 FE (S)
13 G N D
CN1006
1 UNREG CAM
2 UNREG GND
3 CAM POWER ON
4 CAMERA Y
5 G N D
6 CAMERA C
7 G N D
CN1005
4 UNREG
3 UNREG GND
2 UNREG GND
1 UNREG CAM
CN8501
1 AUDIO OUT
2 CAMERA/LINE IN
3 AUDIO GND
4 VIDEO GND
5 +B
6 AUDIO IN
7 VIDEO OUT
8 VIDEO IN
B1001
TP1301
TP1002
TP1004
F1801
S1801
Q1801 2SA1202
Q1802 2SA1179N6
Q1803 2SC3395
Q1509 2SC3397
Q1501 FM82
Q1912 2SC3395
Q1913 2SC3395
Q1910 2SC2812L5
B P F
DET
20
21
22
23
24
25
26
27
28
29
30

*a:REC MODE
[b] :PB MODE

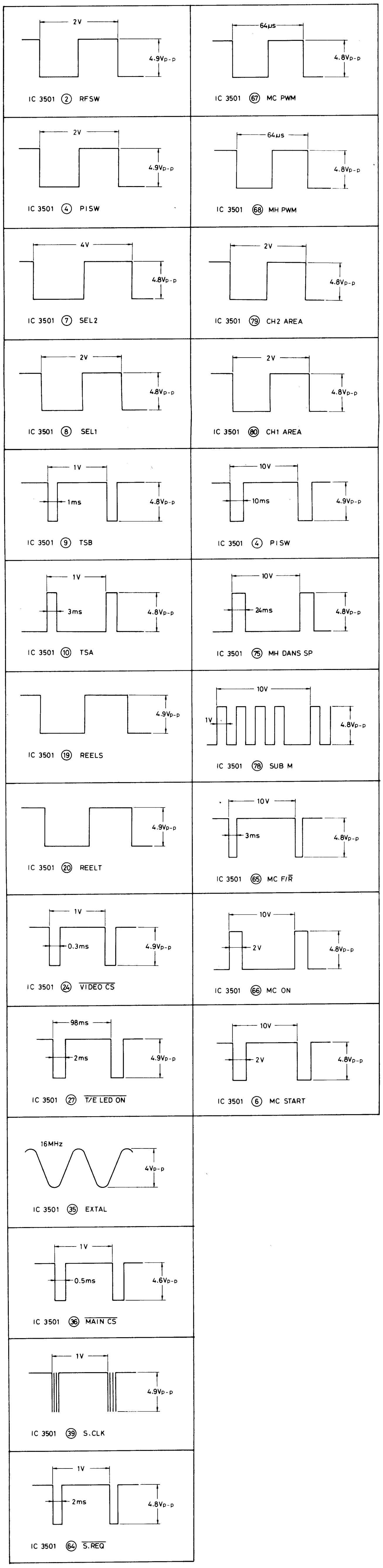
SV-1 BOARD SIDE A


TP3505
TP3504
TP3503
IC3502
IC3508
IC3801
IC3803
CN4001
CN4002
IC3701
IC3501
X3701
X3501
CN4004
CN4005
CN4006
IC3504
L3503
L3505
L3502
L3504
Q3511
Q3513
ER5 SV1 SIDE A
4230F24450C

SV-1 BOARD SIDE B



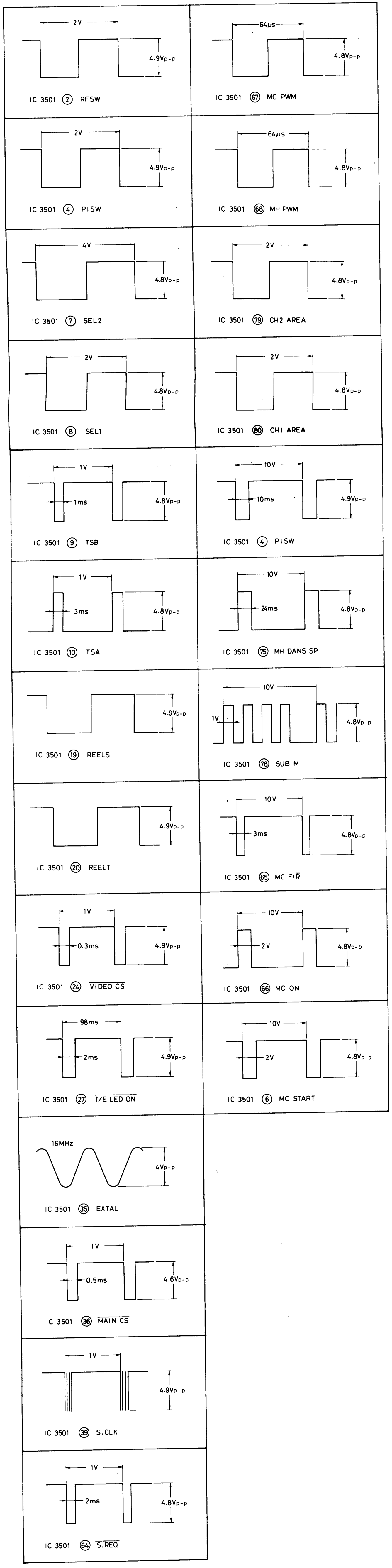
SV-1 BOARD (SERVO)

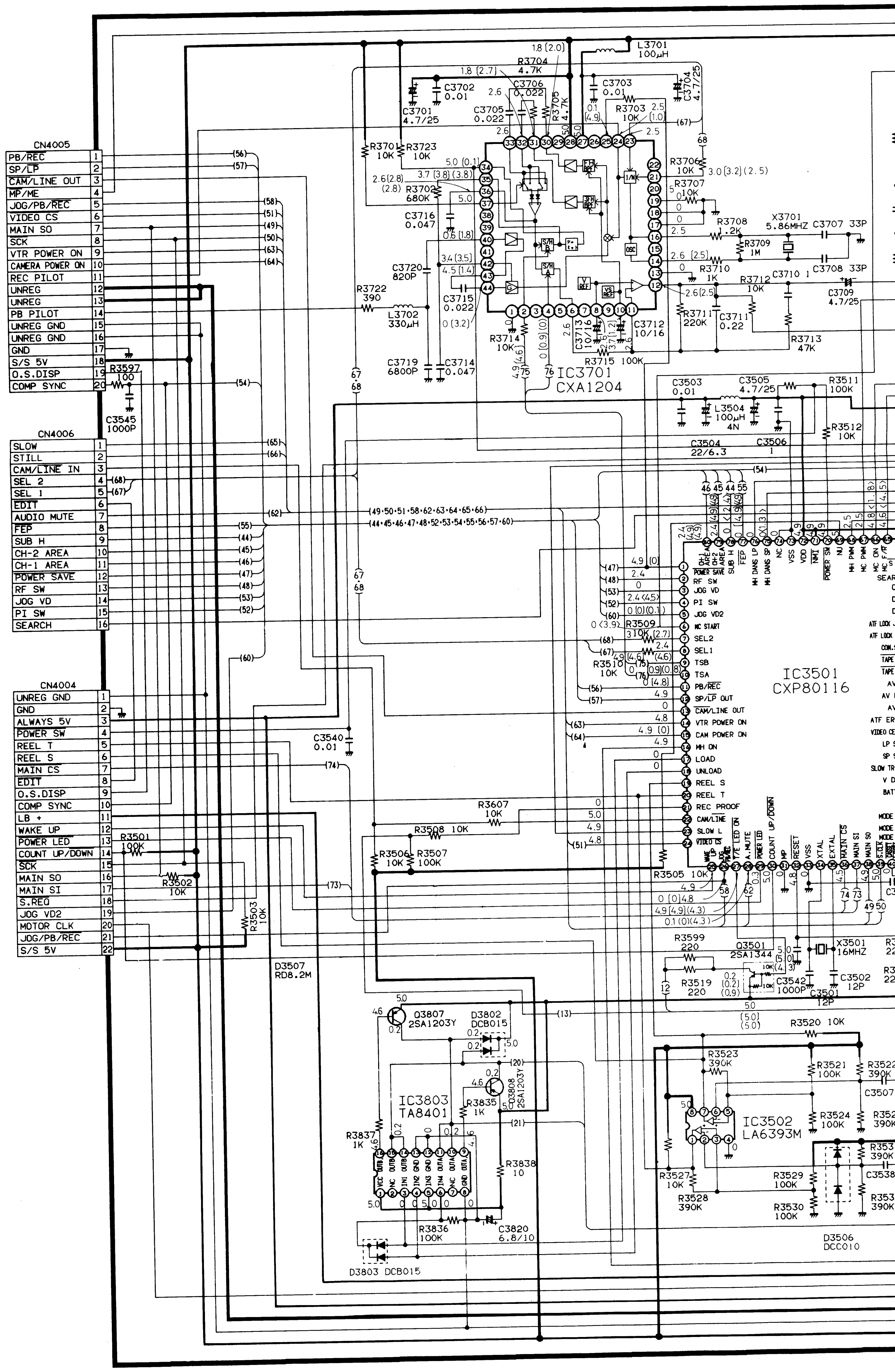


O
N
M
L
K
J
I
H
G
F
E
D
C
B
A

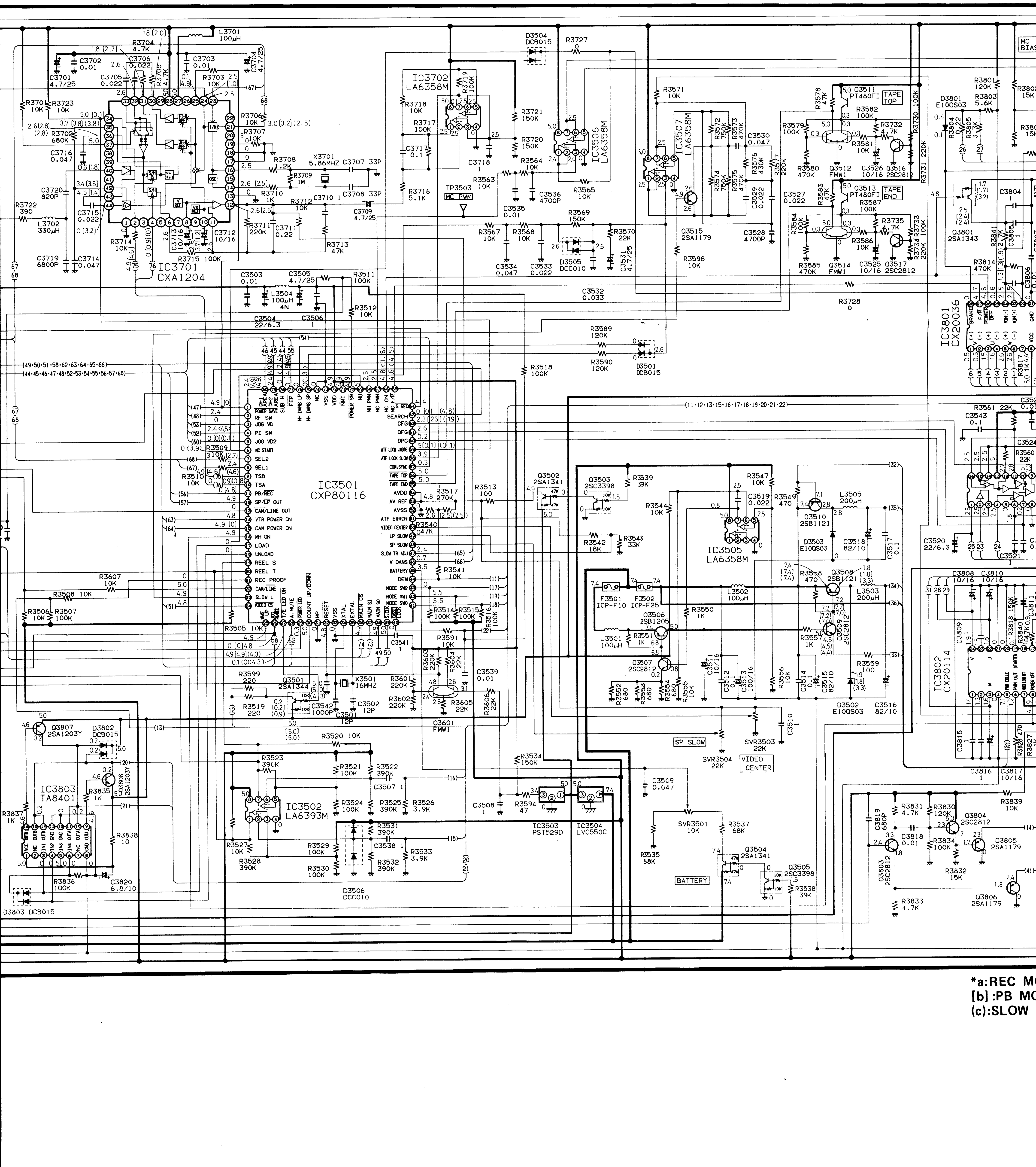
1 2 3 4 5 6 7 8 9 10 11 12

SV-1 BOARD (SERVO)



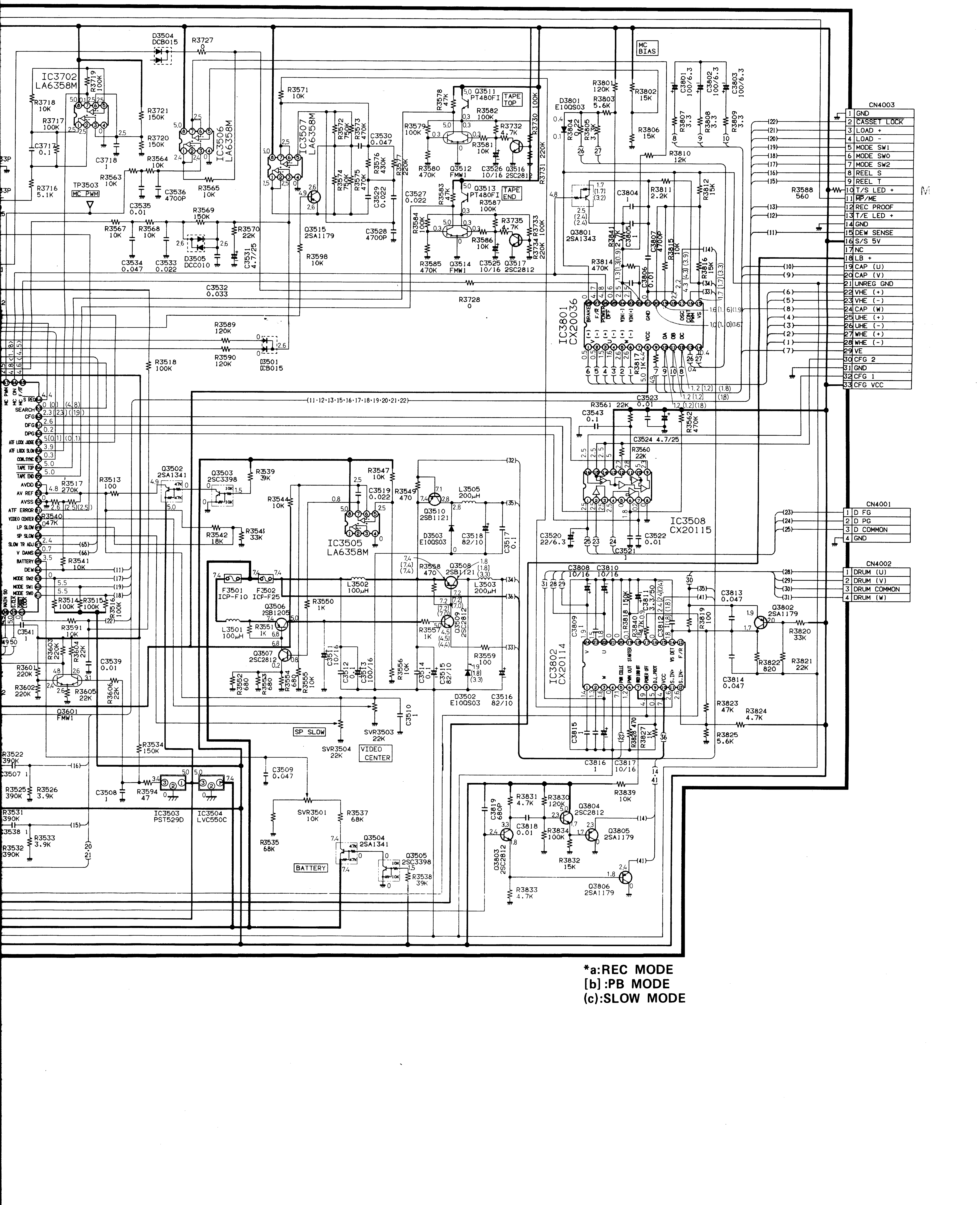

CN4005
PB/REC 1
SP/LP 2
CAM/LINE OUT 3
MP/ME 4
JOG/PB/REC 5
VIDEO CS 6
MAIN SO 7
SCK 8
VTR POWER ON 9
CAMERA POWER ON 10
REC PILOT 11
UNREG 12
UNREG 13
PB PILOT 14
UNREG GND 15
UNREG GND 16
GND 17
S/S 5V 18
O.S.DISP 19
COMP SYNC 20
CN4006
SLOW 1
STILL 2
CAM/LINE IN 3
SEL 2 4
SEL 1 5
EDIT 6
AUDIO MUTE 7
FEP 8
SUB H 9
CH-2 AREA 10
CH-1 AREA 11
POWER SAVE 12
RF SW 13
JOG VD 14
PI SW 15
SEARCH 16
CN4004
UNREG GND 1
GND 2
ALWAYS 5V 3
POWER SW 4
REEL T 5
REEL S 6
MAIN CS 7
EDIT 8
O.S.DISP 9
COMP SYNC 10
LB + 11
WAKE UP 12
POWER LED 13
COUNT UP/DOWN 14
SCK 15
MAIN SO 16
MAIN SI 17
S.REQ 18
JOG VD2 19
MOTOR CLK 20
JOG/PB/REC 21
S/S 5V 22
IC3701 CXA1204
IC3501 CXP80116
IC3803 TA8401
IC3502 LA6393M
L3701 100µH
R3704 4.7K
C3702 0.01
C3706 0.022
C3703 0.01
C3704 4.7/25
C3701 4.7/25
C3705 0.022
R3705 4.7K
R3703 10K
R3701 10K
R3723 10K
R3702 680K
C3716 0.047
C3720 820P
R3722 390
L3702 330µH
C3715 0.022
C3719 6800P
C3714 0.047
R3714 10K
C3713 10/16
C3712 10/16
R3715 100K
R3706 10K
R3707 10K
R3708 .2K
R3709 1M
X3701 5.86MHZ
C3707 33P
C3708 33P
R3710 1K
R3712 10K
C3710 1
C3709 4.7/25
R3711 220K
C3711 0.22
R3713 47K
R3597 100
C3545 1000P
C3503 0.01
C3505 4.7/25
R3511 100K
L3504 100µH 4N
R3512 10K
C3504 22/6.3
C3506 1
R3509 10K
R3510 10K
C3540 0.01
R3607 10K
R3508 10K
R3506 10K
R3507 100K
R3501 100K
R3502 10K
R3503 10K
R3505 10K
D3507 RD8.2M
R3599 220
R3519 220
Q3501 2SA1344
C3542 1000P
X3501 16MHZ
C3502 12P
C3501 12P
R3520 10K
Q3807 2SA1203Y
D3802 DCB015
Q3808 2SA1203Y
R3835 1K
R3837 1K
R3838 10
R3836 100K
C3820 6.8/10
D3803 DCB015
R3523 390K
R3521 100K
R3524 100K
R3527 10K
R3528 390K
R3529 100K
R3530 100K
D3506 DCC010
8 9 10 11 12 13 14 15 16 17 18 19

SV-1 CIRCUIT


IC3701 CXA1204
IC3702 LA6358M
IC3506 LA6358M
IC3507 LA6358M
IC3501 CXP80116
IC3505 LA6358M
IC3502 LA6393M
IC3503 PST529D
IC3504 LVC550C
IC3801 CX20036
IC3802 CX20114
IC3803 TA8401
X3701 5.86MHZ
X3501 16MHZ
TP3503 MC PWM
TAPE TOP
TAPE END
SP SLOW
VIDEO CENTER
BATTERY
SVR3501 10K
SVR3503 22K
SVR3504 22K
F3501 ICP-F10
FJ502 ICP-F25
Q3501 2SA1344
Q3502 2SA1341
Q3503 2SC3398
Q3504 2SA1341
Q3505 2SC3398
Q3506 2SB1205
Q3507 2SC2812
Q3508 2SB1121
Q3509 2SC2812
Q3510 2SB1121
Q3511 PT480FI
Q3512 FMW1
Q3513 PT480FI
Q3514 FMW1
Q3515 2SA1179
Q3516 2SC2812
Q3517 2SC2812
Q3601 FMW1
Q3801 2SA1343
Q3803 2SC2812
Q3804 2SC2812
Q3805 2SA1179
Q3806 2SA1179
Q3807 2SA1203Y
Q3808 2SA1203Y
D3501 DCB015
D3502 E10QS03
D3503 E10QS03
D3504 DCB015
D3505 DCC010
D3506 DCC010
D3801 E10QS03
D3802 DCB015
D3803 DCB015
L3701 100µH
L3702 330µH
L3501 100µH
L3502 100µH
L3503 200µH
L3504 100µH
L3505 200µH
MC BIAS
16
17
18
19
20
21
22
23
24
25
26

*a:REC MO
[b]:PB MO
(c):SLOW

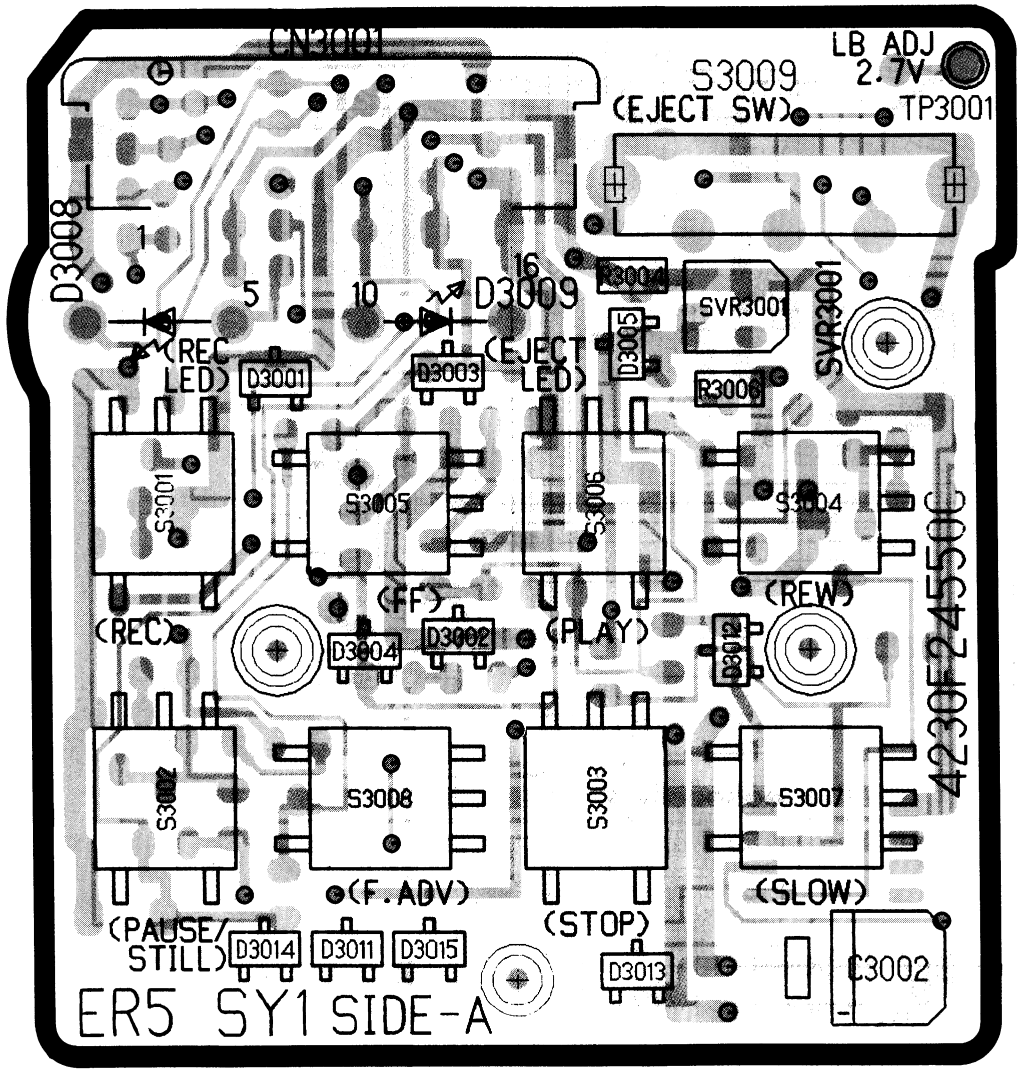
SV-1 CIRCUIT



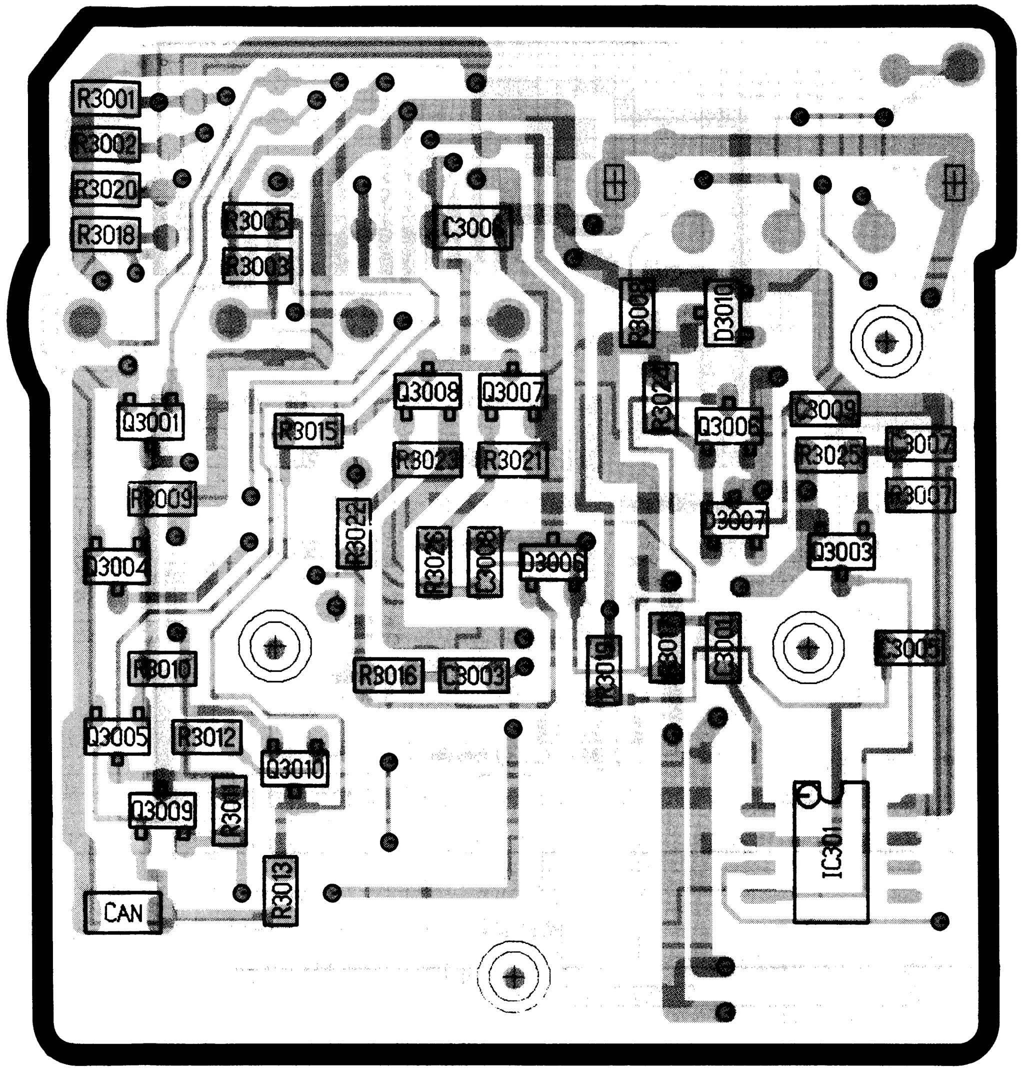
IC3702 LA6358M
IC3506 LA6358M
IC3507 LA6358M
IC3505 LA6358M
IC3801 CX20036
IC3508 CX20115
IC3802 CX20114
IC3503 PST529D
IC3504 LVC550C
Q3511 PT480FI
Q3513 PT480FI
Q3512 FMW1
Q3514 FMW1
Q3515 2SA1179
Q3516 2SC2812
Q3517 2SC2812
Q3801 2SA1343
Q3502 2SA1341
Q3503 2SC3398
Q3510 2SB1121
Q3508 2SB1121
Q3506 2SB1205
Q3509 2SC2812
Q3507 2SC2812
Q3601 FMW1
Q3504 2SA1341
Q3505 2SC3398
Q3802 2SA1179
Q3803 2SC2812
Q3804 2SC2812
Q3805 2SA1179
Q3806 2SA1179
D3504 DCB015
D3505 DCC010
D3501 DCB015
D3801 E10QS03
D3503 E10QS03
D3502 E10QS03
F3501 ICP-F10
F3502 ICP-F25
L3501 100μH
L3502 100μH
L3503 200μH
L3505 200μH
SVR3501 10K
SVR3503 22K
SVR3504 22K
TAPE TOP
TAPE END
MC BIAS
MC PWM
TP3503
SP SLOW
VIDEO CENTER
BATTERY
CN4003
1 GND
2 CASSET LOCK
3 LOAD +
4 LOAD -
5 MODE SW1
6 MODE SW0
7 MODE SW2
8 REEL S
9 REEL T
10 T/S LED +
11 MP/ME
12 REC PROOF
13 T/E LED +
14 GND
15 DEW SENSE
16 S/S 5V
17 NC
18 LB +
19 CAP (U)
20 CAP (V)
21 UNREG GND
22 VHE (+)
23 VHE (-)
24 CAP (W)
25 UHE (+)
26 UHE (-)
27 WHE (+)
28 WHE (-)
29 VE
30 CFG 2
31 GND
32 CFG 1
33 CFG VCC
CN4001
1 D FG
2 D PG
3 D COMMON
4 GND
CN4002
1 DRUM (U)
2 DRUM (V)
3 DRUM COMMON
4 DRUM (W)
20
21
22
23
24
25
26
27
28
29
30

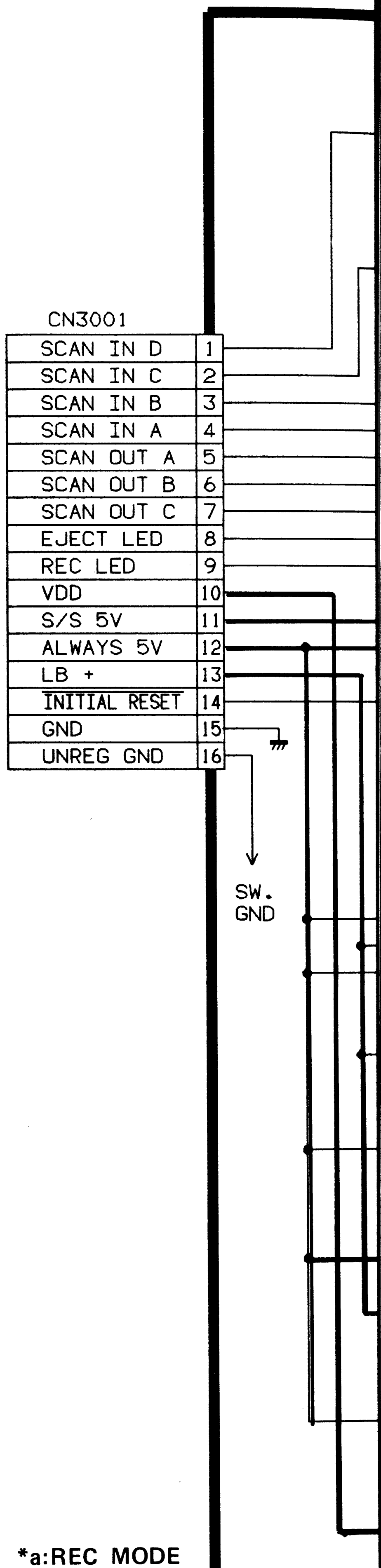
*a:REC MODE
[b]:PB MODE
(c):SLOW MODE

SY-2 BOARD SIDE A


CN3001
LB ADJ
2.7V
S3009
(EJECT SW)
TP3001
D3008
1
5
10
16
D3009
(REC LED)
(EJECT LED)
D3001
D3003
D3005
R3004
SVR3001
SVR3001
R3006
S3001
S3005
S3006
S3004
(FF)
(PLAY)
(REW)
(REC)
D3004
D3002
D3012
S3002
S3008
S3003
S3007
(PAUSE/STILL)
(F.ADV)
(STOP)
(SLOW)
D3014
D3011
D3015
D3013
C3002
ER5 SY1 SIDE-A
4230F24550C

SY-2 BOARD SIDE B

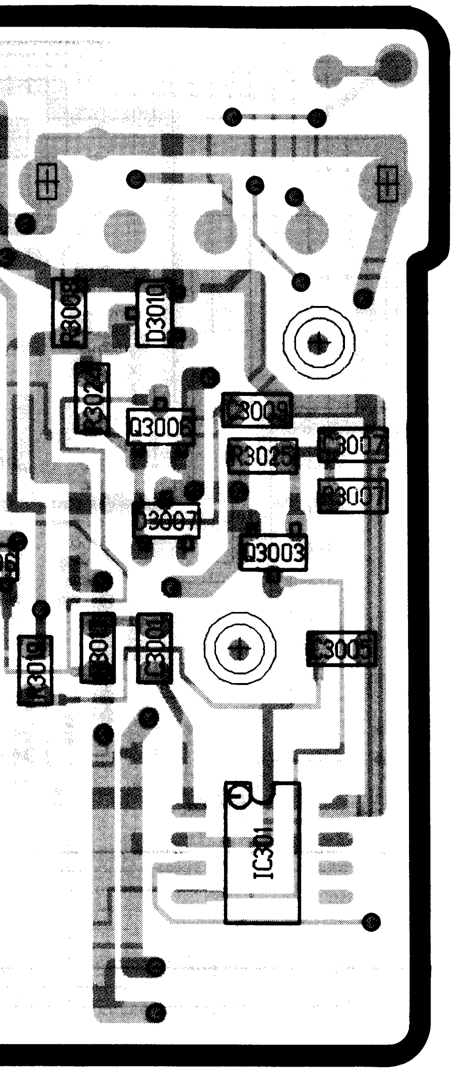

R3001
R3002
R3020
R3018
R3005
R3003
C3006
R3008
D3010
Q3001
R3015
Q3008
Q3007
R3023
R3021
R3024
Q3006
C3009
R3025
C3007
R3007
R3009
R3022
R3026
C3008
D3006
D3007
Q3003
Q3004
R3010
R3016
C3003
R3019
R3017
C3001
C3005
Q3005
R3012
Q3010
Q3009
R3011
R3013
CAN
IC3001


CN3001
SCAN IN D 1
SCAN IN C 2
SCAN IN B 3
SCAN IN A 4
SCAN OUT A 5
SCAN OUT B 6
SCAN OUT C 7
EJECT LED 8
REC LED 9
VDD 10
S/S 5V 11
ALWAYS 5V 12
LB + 13
INITIAL RESET 14
GND 15
UNREG GND 16
SW. GND

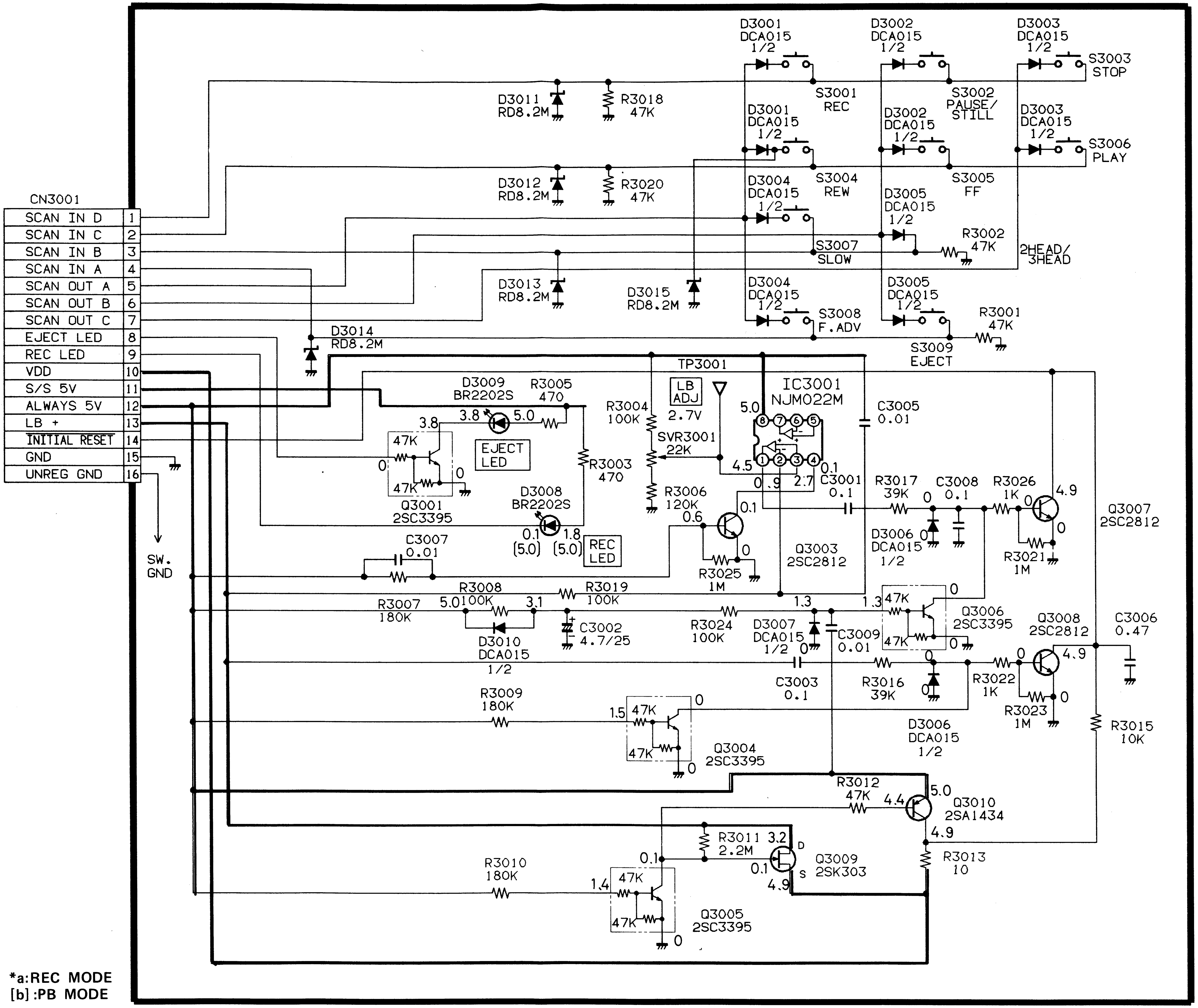
*a:REC MODE
[b] :PB MODE

SY-2 CIRCUIT

SIDE B



D3006
D3010
R3024
Q3006
R3025
R3008
Q3007
Q3009
Q3007
IC301
Q3003
R3019
D3001
C3005

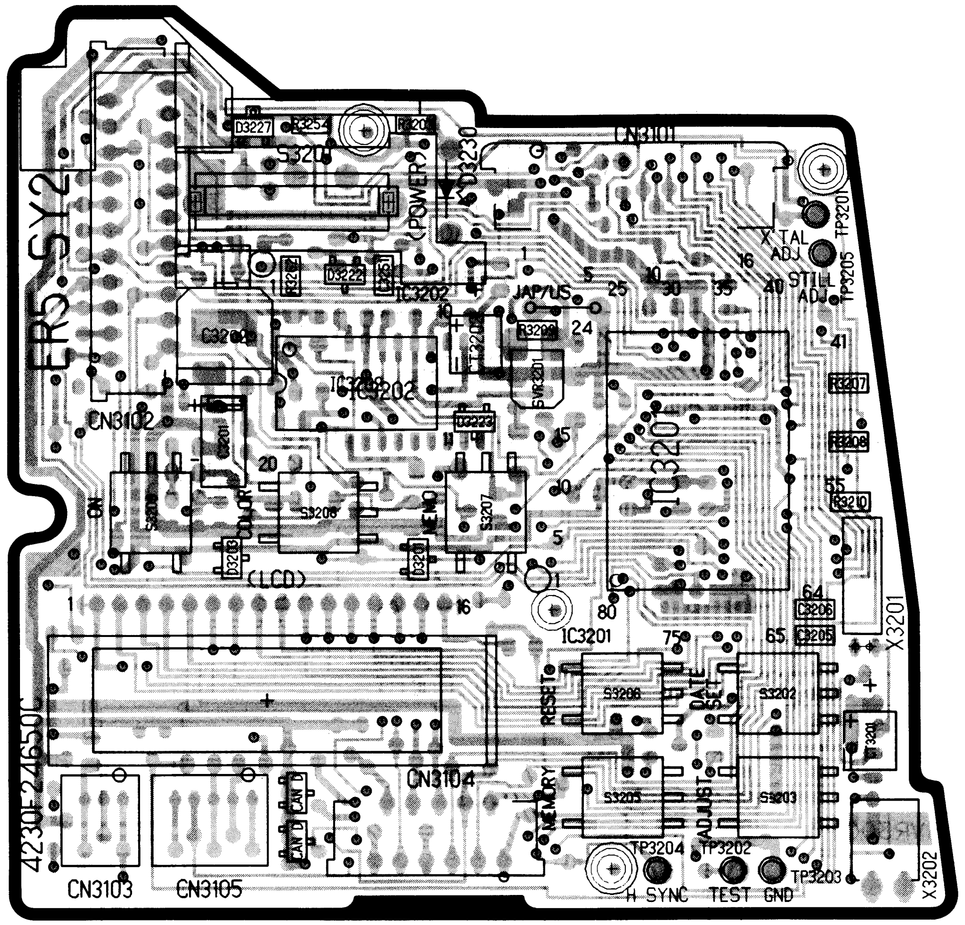


CN3001
SCAN IN D 1
SCAN IN C 2
SCAN IN B 3
SCAN IN A 4
SCAN OUT A 5
SCAN OUT B 6
SCAN OUT C 7
EJECT LED 8
REC LED 9
VDD 10
S/S 5V 11
ALWAYS 5V 12
LB + 13
INITIAL RESET 14
GND 15
UNREG GND 16
SW. GND
D3001 DCA015 1/2
S3001 REC
D3002 DCA015 1/2
S3002 PAUSE/ STILL
D3003 DCA015 1/2
S3003 STOP
S3006 PLAY
D3004 DCA015 1/2
S3004 REW
D3005 DCA015 1/2
S3005 FF
S3007 SLOW
R3002 47K
2HEAD/ 3HEAD
S3008 F.ADV
S3009 EJECT
R3001 47K
D3011 RD8.2M
R3018 47K
D3012 RD8.2M
R3020 47K
D3013 RD8.2M
D3015 RD8.2M
D3014 RD8.2M
TP3001
LB ADJ 2.7V
IC3001 NJM022M
C3005 0.01
D3009 BR2202S
R3005 470
EJECT LED
Q3001 2SC3395
R3003 470
D3008 BR2202S
REC LED
R3004 100K
SVR3001 22K
R3006 120K
C3001 0.1
R3017 39K
C3008 0.1
R3026 1K
Q3007 2SC2812
D3006 DCA015 1/2
R3021 1M
Q3003 2SC2812
R3025 1M
C3007 0.01
R3008 100K
R3019 100K
R3007 180K
D3010 DCA015 1/2
C3002 4.7/25
R3024 100K
D3007 DCA015 1/2
C3009 0.01
Q3006 2SC3395
Q3008 2SC2812
C3006 0.47
C3003 0.1
R3016 39K
R3022 1K
R3023 1M
D3006 DCA015 1/2
R3015 10K
R3009 180K
Q3004 2SC3395
R3012 47K
Q3010 2SA1434
R3011 2.2M
Q3009 2SK303
R3013 10
R3010 180K
Q3005 2SC3395
47K
3.8
5.0
0.1
(5.0)
1.8
4.5
0.9
2.7
0.6
4.9
1.3
3.1
1.5
1.4
4.4
3.2
0

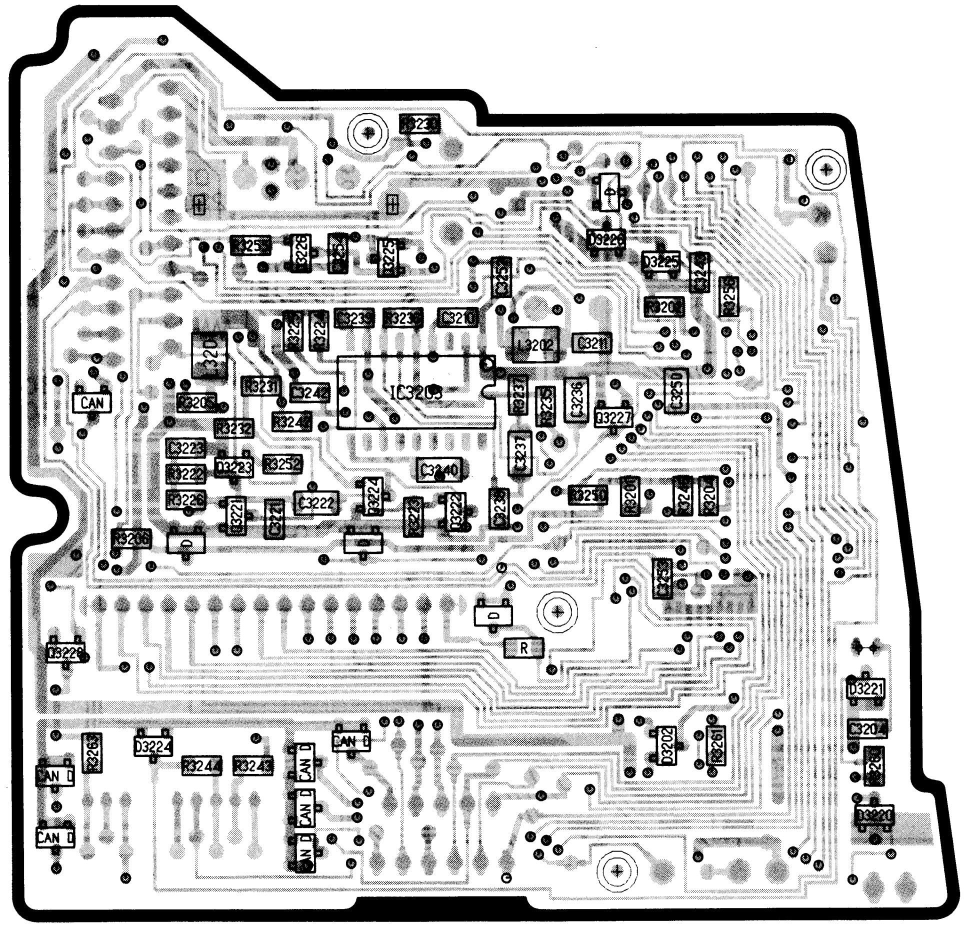
*a:REC MODE
[b] :PB MODE

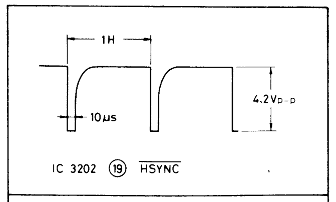
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

SY-1 BOARD SIDE A

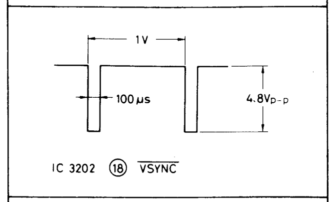

ERS SY2
D3227
S3254
R3205
D3230
(POWER)
S3201
CN3101
X'TAL ADJ
STILL ADJ
TP3201
TP3205
IC3202
JAP/US
R3209
SVR3201
C3202
CN3102
R3207
R3208
R3210
IC3201
S3206
S3207
S3208
(LCD)
MEMO
X3201
C3206
C3205
RESET
DATE SET
S3202
S3203
S3204
S3205
MEMORY
ADJUST
CN3104
CN3103
CN3105
4230F22465DC
TP3204
TP3202
TP3203
H SYNC
TEST
GND
X3202

SY-1 BOARD SIDE B

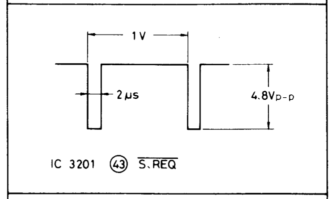

IC3203
R3231
R3232
R3252
R3226
R3206
R3241
R3243
R3244
D3224
D3221
D3222
D3202
Q3227
Q3221
L3202
C3222
C3223
C3240
CAN
CAN D


1H
10μs
4.2Vp-p

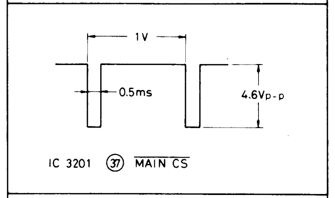
IC 3202 ⑲ $\overline{\text{HSYNC}}$


1V
100μs
4.8Vp-p

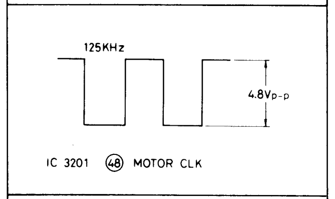
IC 3202 ⑱ $\overline{\text{VSYNC}}$


1V
2μs
4.8Vp-p

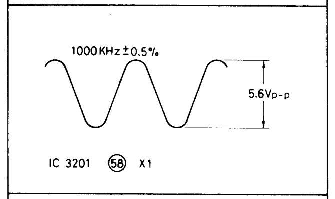
IC 3201 ㊸ $\overline{\text{S.REQ}}$


1V
0.5ms
4.6Vp-p

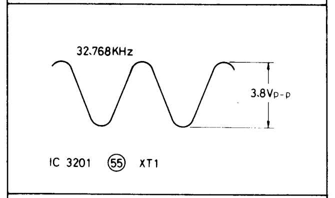
IC 3201 ㊲ $\overline{\text{MAIN CS}}$


125KHz
4.8Vp-p

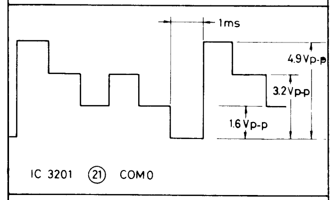
IC 3201 ㊽ MOTOR CLK


1000KHz ±0.5%
5.6Vp-p

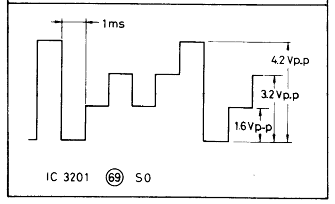
IC 3201 ㊳ X1


32.768KHz
3.8Vp-p

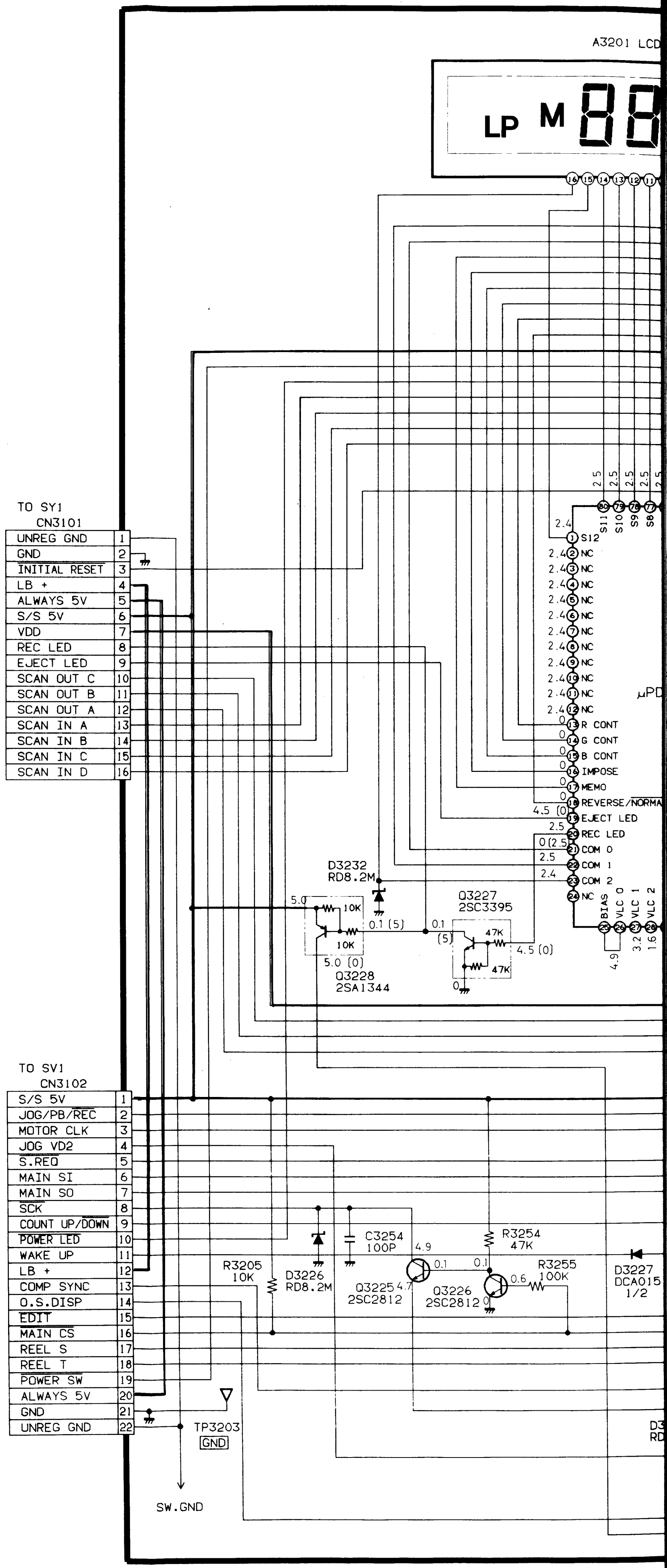
IC 3201 (55) XT1


1ms
4.9Vp-p
3.2Vp-p
1.6Vp-p

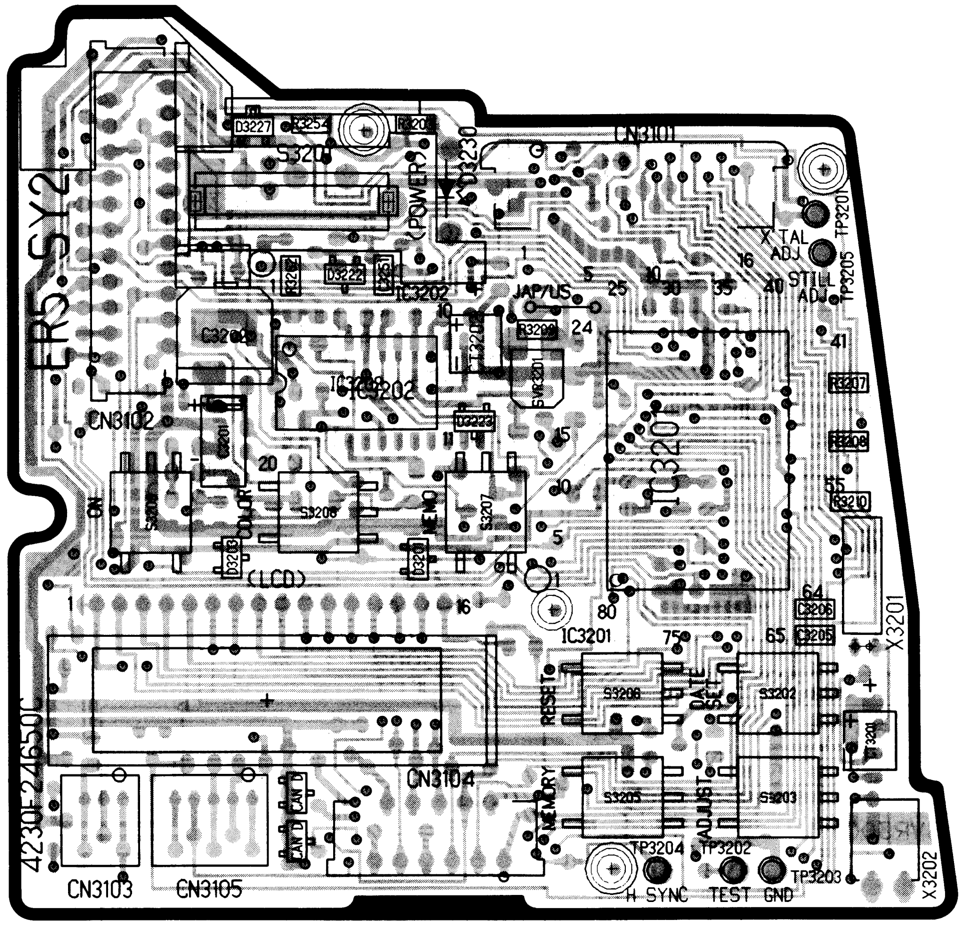
IC 3201 ㉑ COM0


1ms
4.2Vp.p
3.2Vp.p
1.6Vp-p

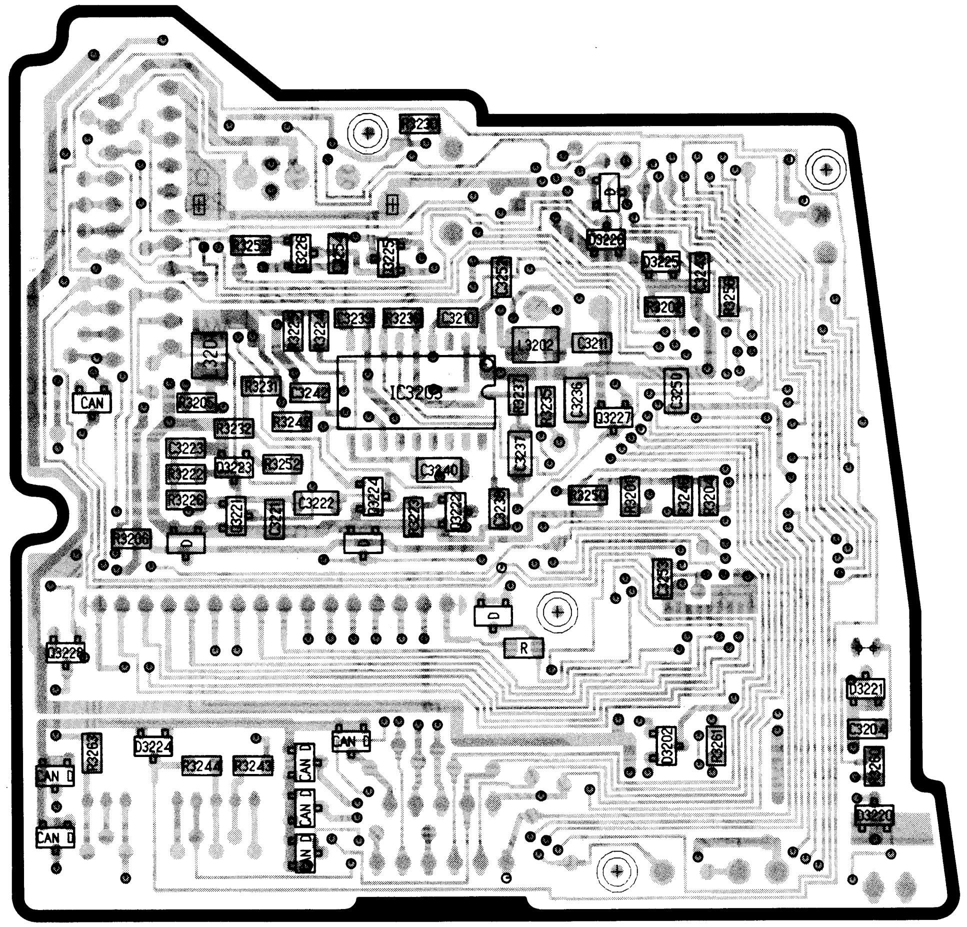
IC 3201 (69) S0

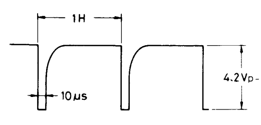

A3201 LCD
LP M 88
TO SY1
CN3101
1 UNREG GND
2 GND
3 INITIAL RESET
4 LB +
5 ALWAYS 5V
6 S/S 5V
7 VDD
8 REC LED
9 EJECT LED
10 SCAN OUT C
11 SCAN OUT B
12 SCAN OUT A
13 SCAN IN A
14 SCAN IN B
15 SCAN IN C
16 SCAN IN D
S11
S10
S9
S8
S12
NC
R CONT
G CONT
B CONT
IMPOSE
MEMO
REVERSE/NORMA
EJECT LED
REC LED
COM 0
COM 1
COM 2
NC
BIAS
VLC 0
VLC 1
VLC 2
μPD
2.5
2.4
0
4.5 (0)
0 (2.5)
4.9
3.2
1.6
D3232
RD8.2M
5.0
10K
10K
0.1 (5)
0.1
(5)
5.0 (0)
Q3228
2SA1344
Q3227
2SC3395
47K
47K
4.5 (0)
TO SV1
CN3102
1 S/S 5V
2 JOG/PB/REC
3 MOTOR CLK
4 JOG VD2
5 S.REQ
6 MAIN SI
7 MAIN SO
8 SCK
9 COUNT UP/DOWN
10 POWER LED
11 WAKE UP
12 LB +
13 COMP SYNC
14 O.S.DISP
15 EDIT
16 MAIN CS
17 REEL S
18 REEL T
19 POWER SW
20 ALWAYS 5V
21 GND
22 UNREG GND
TP3203
GND
SW.GND
R3205
10K
D3226
RD8.2M
C3254
100P
Q3225
2SC2812
4.7
4.9
0.1
Q3226
2SC2812
R3254
47K
0.6
R3255
100K
D3227
DCA015
1/2

SY-1 BOARD SIDE A

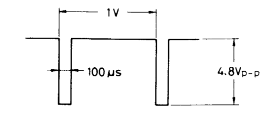

CN3101
TP3201
X'TAL ADJ
TP3205
STILL ADJ
JAP/US
IC3202
IC3201
IC3203
CN3102
S3201
(POWER)
ON
COLOR
MEMO
(LCD)
RESET
DATE SET
CN3104
MEMORY
ADJUST
TP3204
TP3202
TP3203
H SYNC
TEST
GND
X3201
X3202
CN3103
CN3105
4230F24650C
ER5-SY2

SY-1 BOARD SIDE B

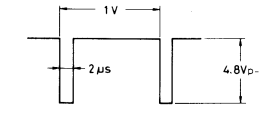

IC3203
CAN
D3224
D3221
D3202
D3228



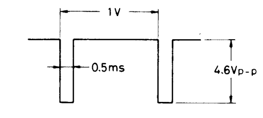
IC 3202 ⑲ HSYNC



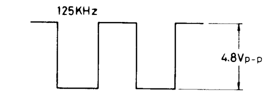
IC 3202 ⑱ VSYNC



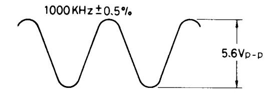
IC 3201 ㊸ S.REQ



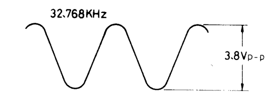
IC 3201 ㊲ MAIN CS



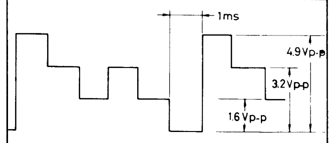
IC 3201 ㊽ MOTOR CLK



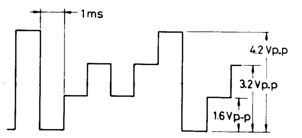
IC 3201 (58) X1



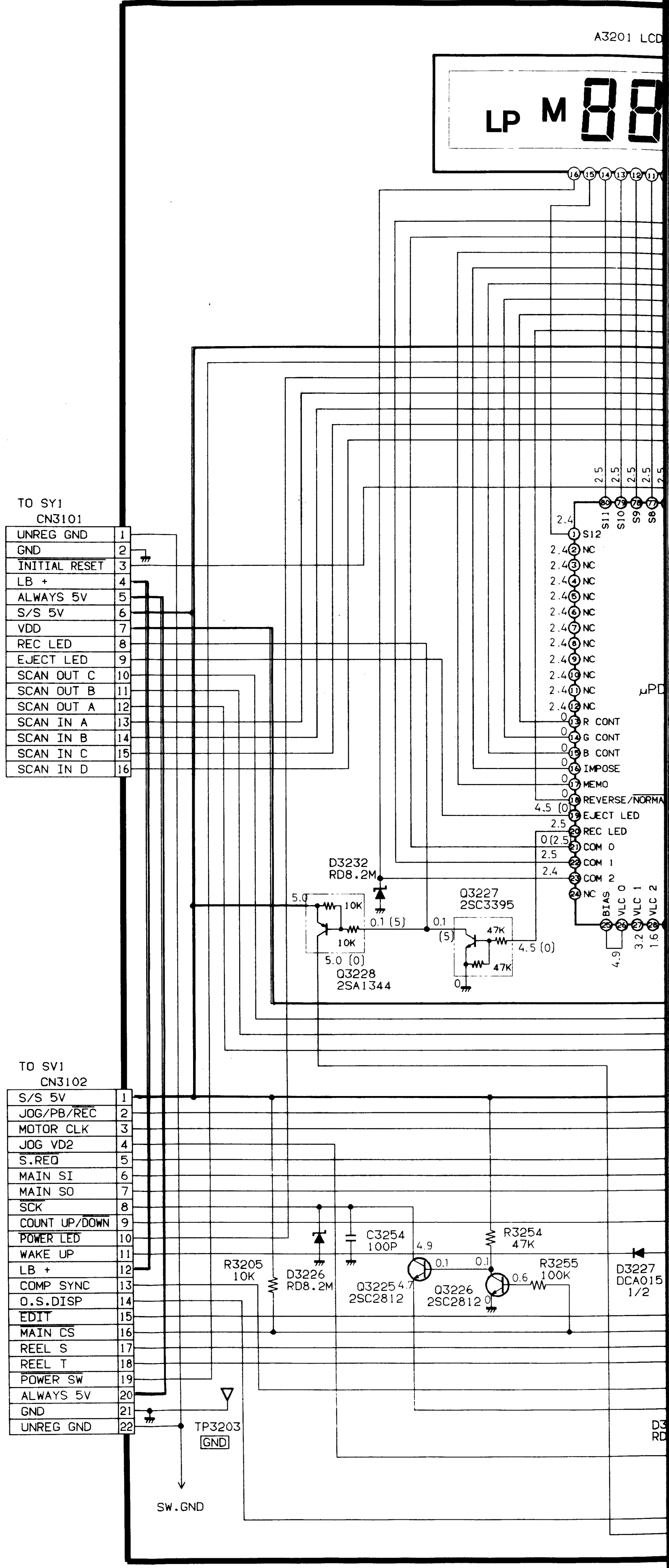
IC 3201 (55) XT1



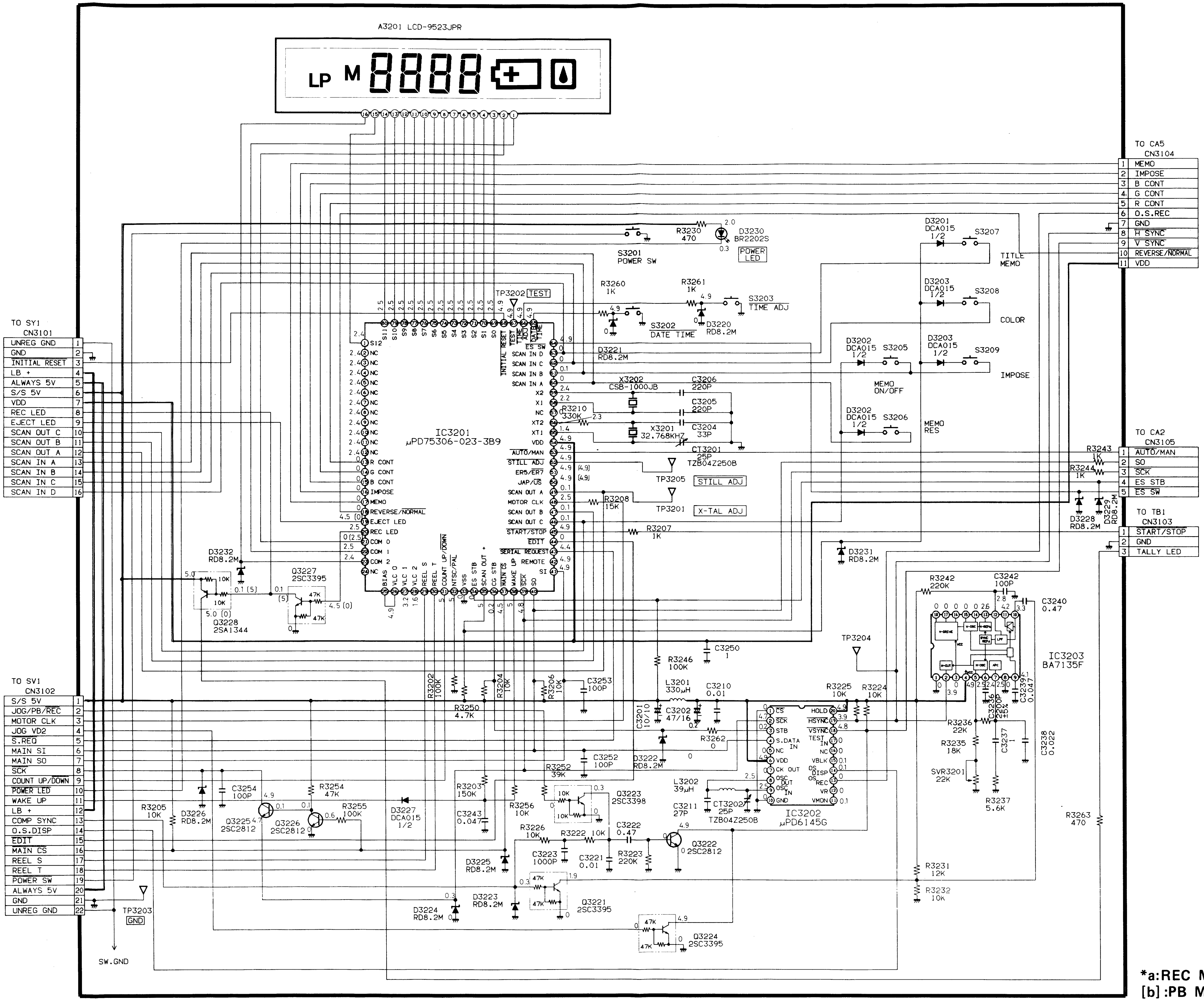
IC 3201 ㉑ COM0



IC 3201 (69) S0


A3201 LCD
LP M 88
TO SY1 CN3101
1 UNREG GND
2 GND
3 INITIAL RESET
4 LB +
5 ALWAYS 5V
6 S/S 5V
7 VDD
8 REC LED
9 EJECT LED
10 SCAN OUT C
11 SCAN OUT B
12 SCAN OUT A
13 SCAN IN A
14 SCAN IN B
15 SCAN IN C
16 SCAN IN D
TO SV1 CN3102
1 S/S 5V
2 JOG/PB/REC
3 MOTOR CLK
4 JOG VD2
5 S.REQ
6 MAIN SI
7 MAIN SO
8 SCK
9 COUNT UP/DOWN
10 POWER LED
11 WAKE UP
12 LB +
13 COMP SYNC
14 O.S.DISP
15 EDIT
16 MAIN CS
17 REEL S
18 REEL T
19 POWER SW
20 ALWAYS 5V
21 GND
22 UNREG GND
S12
NC
R CONT
G CONT
B CONT
IMPOSE
MEMO
REVERSE/NORMA
EJECT LED
REC LED
COM 0
COM 1
COM 2
BIAS
VLC 0
VLC 1
VLC 2
μPD
D3232 RD8.2M
Q3227 2SC3395
Q3228 2SA1344
10K
47K
R3205 10K
D3226 RD8.2M
C3254 100P
Q3225 2SC2812
Q3226 2SC2812
R3254 47K
R3255 100K
D3227 DCA015 1/2
TP3203 GND
SW.GND

SY-1 BOARD CIRCUIT


A3201 LCD-9523JPR
LP M 8888
TO SY1
CN3101
UNREG GND
GND
INITIAL RESET
LB +
ALWAYS 5V
S/S 5V
VDD
REC LED
EJECT LED
SCAN OUT C
SCAN OUT B
SCAN OUT A
SCAN IN A
SCAN IN B
SCAN IN C
SCAN IN D
TO SV1
CN3102
S/S 5V
JOG/PB/REC
MOTOR CLK
JOG VD2
S.REQ
MAIN SI
MAIN SO
SCK
COUNT UP/DOWN
POWER LED
WAKE UP
LB +
COMP SYNC
O.S.DISP
EDIT
MAIN CS
REEL S
REEL T
POWER SW
ALWAYS 5V
GND
UNREG GND
TP3203
GND
SW.GND
IC3201
μPD75306-023-3B9
TP3202 TEST
S3201
POWER SW
R3230
470
D3230
BR2202S
POWER LED
R3260
1K
R3261
1K
S3202
DATE TIME
S3203
TIME ADJ
D3220
RD8.2M
D3221
RD8.2M
X3202
CSB-1000JB
C3206
220P
C3205
220P
R3210
330K
X3201
32.768KHZ
C3204
33P
CT3201
25P
TZB04Z250B
TP3205
STILL ADJ
TP3201
X-TAL ADJ
R3208
15K
R3207
1K
D3231
RD8.2M
D3232
RD8.2M
Q3227
2SC3395
Q3228
2SA1344
D3201
DCA015
S3207
TITLE MEMO
D3203
DCA015
S3208
COLOR
D3202
DCA015
S3205
MEMO ON/OFF
S3209
IMPOSE
S3206
MEMO RES
TO CA5
CN3104
MEMO
IMPOSE
B CONT
G CONT
R CONT
O.S.REC
GND
H SYNC
V SYNC
REVERSE/NORMAL
VDD
TO CA2
CN3105
AUTO/MAN
SO
SCK
ES STB
ES SW
R3243
1K
R3244
1K
D3228
RD8.2M
D3229
RD8.2M
TO TB1
CN3103
START/STOP
GND
TALLY LED
R3242
220K
C3242
100P
C3240
0.47
IC3203
BA7135F
TP3204
C3250
1
R3246
100K
L3201
330μH
C3210
0.01
C3201
10/10
C3202
47/16
R3262
0
R3225
10K
R3224
10K
IC3202
μPD6145G
L3202
39μH
C3211
27P
CT3202
25P
TZB04Z250B
R3236
22K
R3235
18K
C3237
1
C3238
0.022
C3239
0.047
SVR3201
22K
R3237
5.6K
R3263
470
R3231
12K
R3232
10K
R3202
100K
R3250
4.7K
R3204
10K
R3206
10K
C3253
100P
C3252
100P
R3252
39K
D3222
RD8.2M
Q3223
2SC3398
R3203
150K
C3243
0.047
R3256
10K
R3226
10K
R3222
10K
C3222
0.47
Q3222
2SC2812
C3223
1000P
C3221
0.01
R3223
220K
D3225
RD8.2M
Q3221
2SC3395
D3223
RD8.2M
D3224
RD8.2M
Q3224
2SC3395
D3227
DCA015
R3205
10K
D3226
RD8.2M
C3254
100P
Q3225
2SC2812
Q3226
2SC2812
R3254
47K
R3255
100K

*a:REC MODE
[b] :PB MODE

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27